

## Intro_NewCohort_0_notNew

Thank you for participating in this survey. You have been invited because you participated in the FluPaths survey conducted over the past several years. This study is an extension of that study, now focusing on both influenza (flu) and COVID-19, and called the ALP Flu+COVIDPaths Study.

It is the first in a series of surveys that you will be asked to complete. Each of these surveys will be conducted on the ALP and labeled as part of FluPaths or COVIDPaths (or both). You will also notice the Flu+COVIDPaths logo on the surveys and in invitation emails, alongside the normal ALP logo.

Specifically, at least twice a year for the next four years, you will be asked to complete surveys about your thoughts and experiences regarding flu and COVID, as well vaccination for each. This will help us better understand how your thinking about flu and COVID change over time. Your responses are very important to us, as is your willingness to continue to regularly complete the Flu+COVIDPaths surveys.

We are only interested in your perspective - there are no right or wrong answers to any of these questions. If you are uncertain about the answer to a question, please give your best estimate.

Today's survey will be in two parts. The first part focuses on you specifically. The second part will ask you about people that you interact with on a day-to-day basis, how they might interact with each other, and what you know of their experiences with flu and/or COVID. This second portion may look familiar, as we will be drawing in the people you may have described during the past FluPaths surveys.

Please click "Next" to continue.


## Intro_NewCohort_1_new

Thank you for participating in this survey. It is the first in a series of surveys that you will be asked to complete, and are all part of the new the ALP Flu+COVIDPaths Study. Each of these surveys will be conducted on the ALP and labeled as part of FluPaths or COVIDPaths (or both). You will also notice the Flu+COVIDPaths logo on the surveys and in invitation emails, alongside the normal ALP logo.

Specifically, at least twice a year for the next four years, you will be asked to complete surveys about your thoughts and experiences regarding influenza (flu) and COVID-19, as well vaccination for each. This will help us better understand how your thinking about flu and COVID-19 change over time. Your responses are very important to us, as is your willingness to continue to regularly complete the Flu+COVIDPaths surveys.

We are only interested in your perspective - there are no right or wrong answers to any of these questions. If you are uncertain about the answer to a question, please give your best estimate.

Today's survey will be in two parts. The first part focuses on you specifically. The second part will ask you about people that you interact with on a day-to-day basis, how they might interact with each other, and what you know of their experiences with flu and/or COVID-19.

Please click "Next" to continue.


## Section2_intro

The following questions ask about your experiences with the flu, which typically comes on suddenly, and causes fever, cough, and sore throat. It may also include muscle or body aches and headaches. Typically, people catch the flu between the months of September and March.

## HadFluLastYear

[Not required]
During the last flu season (August 2020 to April 2021), did you have an illness that you thought was the flu?
$\bigcirc$ Yes (1)
O No (2)
O I got sick, but I don't know if it was the flu (3)
O I thought I had the flu, but later found out it wasn't the flu (4)

## VaccinatedFluThisYear

[Not required]
Have you gotten vaccinated for the flu so far this flu season (between August 2021 and the present)?
O Yes (1)
O No (2)
O I don't remember (3)

## VaccinatedFluLastYear

[Not required]
Did you get vaccinated for the flu last year (between August 2020 and April 2021)?


## FluVaccineWhyNot

Why did you not get the seasonal flu vaccine last year? If you did get the flu vaccine last year, please hit the back button and change your response.

## Please check all that apply.

I did not want to be exposed to COVID-19 by going out (1)
I wanted to get the COVID vaccine and couldn't get them at the same time (2)
There wasn't a lot of flu around last year (3)
I did not have confidence that the flu vaccine was safe for me (4)
I did not have confidence that the flu vaccine would work well (5)
No one told me I should get the flu vaccine (6)
$\square$ Other (7) $\qquad$ [Other]
O None of the above (8) [Exclusive]


## FluVaccineWhy

Why did you get the seasonal flu vaccine last year? If you did not get the flu vaccine last year, please hit the back button and change your response.

## Please check all that apply.

$\square$ I always get the flu vaccine (1)
I was particularly worried about getting the flu given the COVID-19 pandemic (2)
I wanted to protect myself from the flu (3)
I wanted to protect other people in my home or community from the flu (4)
My workplace requires that I get the flu vaccine (5)
My health care provider told me I should get the flu vaccine (6)
$\square$ Other (7) $\qquad$ [Other]
O None of the above (8) [Exclusive]


## NeverSometimesAlwaysFlu

## [Not required]

Would you say that you are generally the type of person who always gets vaccinated for the flu (that is, you get vaccinated every year), sometimes gets vaccinated for the flu, or never gets vaccinated for the flu?
O Always vaccinate for flu (1)
O Sometimes vaccinate for flu (2)
O Never vaccinate for flu (3)

## Section3_intro

The following questions ask about your experiences with COVID-19.

## HadCOVID

[Not required]
To this date, have you had an illness that you think was COVID-19?
O Yes (1)
O No (2)
O I got sick, but I don't know if it was COVID-19 (3)
O I thought I had COVID-19, but later found out it wasn't COVID-19 (4)

## VaccinatedCOVID

## [Not required]

Have you received a COVID-19 vaccine? Do not include boosters in your response.
O Yes, got a one-dose vaccine (Janssen/Johnson \& Johnson) (1)
O Yes, got the first dose of a two-dose vaccine (Pfizer/BioNTech or Moderna) (2)
O Yes, got both doses of a two-dose vaccine (Pfizer/BioNTech or Moderna) (3)
O No, have not gotten a COVID-19 vaccine (4)
O I don't remember (5)

## Policies

In your day-to-day activities, are you personally impacted by local policies (for example, by a local government or employer) that require any of the following:

## Please check all that apply.

$\square$ COVID-19 vaccination (1)
Mask wearing (for example, in public indoor spaces) (2)
Social distancing (for example, staying 6 feet or more from others) (3)
O None of the above (4) [Exclusive]

## Medical

[Not required]
Please indicate if you must regularly leave the house for work, even during lockdown, either because you are a medical professional or have another job requiring you to leave home.

O Yes, a medical professional that must leave the house for work (1)
O Yes, must leave the house for work (2)
O No (3)
O Don't know (4)

## NSAMask

[Not required]
Currently, would you say that you are generally the type of person who always wears a mask while around strangers and acquaintances indoors, sometimes wears a mask, or never wears a mask?
O Always wears a mask (1)
O Sometimes wears a mask (2)
O Never wears a mask (3)

## NSAGatherings

[Not required]

Currently, would you say that you are generally the type of person who always avoids social gatherings or crowded indoor events due to COVID-19, sometimes avoids social gatherings or crowded indoor events, or never avoids social gatherings or crowded indoor events?
O Always avoids social gatherings or crowded indoor events (1)
O Sometimes avoids social gatherings or crowded indoor events (2)
O Never avoids social gatherings or crowded indoor events (3)


## NSAMaskPrior

[Not required]
Now consider the time immediately prior to when you received your COVID-19 vaccine. Would you say that, at that time, you were generally the type of person who always wore a mask while around strangers indoors, sometimes wore a mask, or never wore a mask?

O Always wore a mask (1)
O Sometimes wore a mask (2)
O Never wore a mask (3)

## NSAGatheringsPrior

[Not required]
Again, consider the time immediately prior to when you received your COVID-19 vaccine. would you say that, at that time, you were generally the type of person who always avoided social gatherings or crowded indoor events due to COVID-19, sometimes avoided social gatherings or crowded indoor events, or never avoided social gatherings or crowded indoor events?
O Always avoided social gatherings or crowded indoor events (1)
O Sometimes avoided social gatherings or crowded indoor events (2)
O Never avoided social gatherings or crowded indoor events (3)


## FluVaccinationExpectation -

[Numeric • Not required $\bullet$ Lower limit=0 • Lower limit type=GreaterOrEqual $\bullet$ Upper limit=100 • Upper limit type=SmallerOrEqual $\bullet$ Total Digits=4 $\bullet$ Decimal places $=1]$

The following questions ask about your expectations for the future.
What do you think are the chances that you will choose to get the flu vaccine this flu season (between now and April 2022)?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

## FluExpectationNoVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits $=4 *$ Decimal places $=1]$
If you do not get the flu vaccine this flu season, what do you think are the chances that you will catch the flu this season (between now and April 2022)?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)
$\square$

## FluExpectationVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits $=4 *$ Decimal places $=1]$
If you do get the flu vaccine this flu season, what do you think are the chances that you will catch the flu this season (between now and April 2022)?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)


## FluExpectationAlreadyVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$
The following questions ask about your expectations for the future.
What do you think are the chances that you will catch the flu this flu season (between now and April 2022)?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

FluExpectationNeverVacc -
[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$

Imagine that, for whatever reason, you had not and will not get vaccinated for flu this season. What do you think are the chances that you would catch the flu this season (between now and April 2022)?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)


## COVIDVaccinationExpectation -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$
What do you think are the chances that you will choose to get the first dose of a COVID-19 vaccine by this Spring (April 2022)?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)
$\square$

## COVIDExpectationNoVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$
If you do not get a COVID vaccine, what do you think are the chances that you will catch COVID-19 by this Spring (April 2022)?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

COVIDExpectationVacc -
[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$

If you do get a COVID vaccine, what do you think are the chances that you will catch COVID-19 by this Spring (April 2022)?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)


## COVIDExpectationAlreadyVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$
What do you think are the chances that you will catch COVID-19 by this Spring (April 2022)?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

## COVIDExpectationNeverVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits $=4 *$ Decimal places $=1]$
Imagine that, for whatever reason, you had not and will not get vaccinated for COVID-19. What do you are the chances that you would catch COVID-19 by this Spring (April 2022)?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)


## COVIDExpectationHospital -

[Numeric • Not required $\bullet$ Lower limit=0 • Lower limit type=GreaterOrEqual $\bullet$ Upper limit=100 • Upper limit type=SmallerOrEqual * Total Digits=4 • Decimal places=1]
If you were to catch COVID-19 in the future, what do you think are the chances that it would be severe enough to require hospitalization?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)
||f('VaccinatedCOVID').any('4','5')

## COVIDExpHospitalVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits=4 • Decimal places=1]
Imagine that you were vaccinated for COVID-19. In this case, if you were to catch COVID-19 in the future, what do you think are the chances that it would be severe enough to require hospitalization?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

## $\sum_{工}{\underset{I}{| | \mid}}^{0}$ Condition f('VaccinatedCOVID').any('4','5')



## COVIDExpHospitalNoVacc -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits $=4 *$ Decimal places $=1]$
Imagine that you were not vaccinated for COVID-19. In this case, if you were to catch COVID-19 in the future, what do you think are the chances that it would be severe enough to require hospitalization?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

## SevereCOVIDExpectationDeath -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$

Considering changes in how COVID-19 is currently treated, If you were to have a severe case of COVID-19 and require hospitalization, what do you think are the chances that you would die from COVID-19 or COVID-19 complications?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

## DescriptiveCOVIDVaccNorm -

[Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100 \bullet$ Upper limit type $=$ SmallerOrEqual $\bullet$ Total Digits $=4 \bullet$ Decimal places $=1]$

In the state where you live, what percentage of adults do you think have already received at least one dose of a COVID-19 vaccine?

Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric characters like \%.)

## DescriptiveCOVIDNorm -

$[$ Numeric $\bullet$ Not required $\bullet$ Lower limit $=0 \bullet$ Lower limit type $=$ GreaterOrEqual $\bullet$ Upper limit $=100000 \bullet$ Upper limit type=SmallerOrEqual $\bullet$ Total Digits=15]
Consider 100,000 adults in the state where you live. How many of them have caught COVID-19 in the last month?
Either use the scale or type your answer in the box below. (If you type in your answer, do not use non-numeric.)


## ALTERACTIVE -

Recall that in past FluPaths surveys, you listed people with whom you discussed matters important to you at some point over the last several years. The next set of questions is about this list of people. First, we want to make sure that each of these people should still be on your list or if you would like to remove any of them for any reason, such as if they have passed away. Please review the list below, and uncheck any people that should no longer be on the list of people we ask you about.

To help you recall these people, we have included their gender, age, and relationship to you. If you don't recognize a person, please uncheck the box. You'll have a chance to add new people to the list.
$\square \wedge f($ 'ageGenderRel_01')^(01)
$\square \wedge$ f('ageGenderRel_02')^(02)
$\square \wedge \mathrm{f}\left(\right.$ 'ageGenderRel_03')$^{\wedge}(03)$
$\square \wedge f($ 'ageGenderRel_04')^ (04)
$\square \wedge f($ ageGenderRel_05')^(05)


## INACTIVEWHY_3DGrid - INACTIVEWHY_3DGrid

## [Not required]

You selected to remove the following people from your list. If you did not wish to remove one or more of these people, please hit the back button and change your answers. If correct, for each person, please tell us why they should no longer be on your list. Mobile users - It may be helpful to view this question horizontally.

|  | INACTIVEWHY - |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | I do not talkto this personabout mattersimportant to me (1) | They should nothave been on my list to begin with (2) |  | Other (Please specify) <br> (4) | $\underset{-}{\text { INACTIVEWHY_other }}$ |
| $\begin{aligned} & \text { ^f('ageGenderRel_01')^ } \\ & (01) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge f(\text { 'ageGenderRel_02')^ } \\ & (02) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_03')^ } \\ & (03) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_04')^ } \\ & (04) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_05')^ } \\ & (05) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_06')^ } \\ & (06) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \text { f('ageGenderRel_07')^ } \\ & (07) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_08')^} \\ & (08) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| ^f('ageGenderRel_09')^ (09) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_10')^ } \\ & (10) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge f(\text { 'ageGenderRel_11')^ } \\ & (11) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\wedge^{\wedge}($ 'ageGenderRel_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| ${ }^{\wedge} \mathrm{f}($ 'ageGenderRel_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_14')^ } \\ & (14) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_15')^ } \\ & (15) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_16')^ } \\ & (16) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_17')^ } \\ & \text { (17) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_18')^ } \\ & (18) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_19')^ } \\ & \text { (19) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_20')^} \\ & (20) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_21')^ } \\ & (21) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| ${ }^{\wedge} \mathrm{f}($ 'ageGenderRel_22')^ (22) | $\square$ | $\square$ | $\square$ | $\square$ | - |


|  | INACTIVEWHY - |  |  |  | INACTIVEWHY_other |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge^{\wedge}($ ('ageGenderRel_23')^ (23) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_24')^ } \\ & (24) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| ^f('ageGenderRel_25')^ (25) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\wedge^{\wedge}($ ('ageGenderRel_26')^ (26) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| ${ }^{\wedge}$ f('ageGenderRel_27')^ (27) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_28')^} \\ & (28) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_29')^ } \\ & (29) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_30')^} \\ & (30) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_31')^ } \\ & (31) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_32')^ } \\ & (32) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_33')^ } \\ & (33) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| ^f('ageGenderRel_34')^ (34) | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_35')^ } \\ & (35) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_36')^ } \\ & (36) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \text { ^f('ageGenderRel_37')^ } \\ & (37) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - - |
| $\begin{aligned} & \text { ^f('ageGenderRel_38')^ } \\ & (38) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - - |
| $\begin{aligned} & \wedge^{\wedge} \text { f('ageGenderRel_39')^} \\ & (39) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ageGenderRel_40')^} \\ & (40) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - - |
| $\begin{aligned} & \text { ^f('ageGenderRel_41')^ } \\ & (41) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - - |
| $\begin{aligned} & \text { ^f('ageGenderRel_42')^ } \\ & (42) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | -- |
| $\begin{aligned} & \wedge \mathrm{f}\left({ }^{\prime}\right. \text { ageGenderRel_43')^ } \\ & (43) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}\left(\text { 'ageGenderRel_44')^}_{(44)}\right. \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge f(\text { 'ageGenderRel_45')^ } \\ & (45) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - - |
| $\begin{aligned} & \wedge \text { f('ageGenderRel_46')^ } \\ & (46) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \text { f('ageGenderRel_47')^ } \\ & (47) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge \mathrm{f}\left(\text { 'ageGenderRel_48' }^{\prime}{ }^{\wedge}\right. \\ & (48) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |
| $\begin{aligned} & \wedge f(\text { 'ageGenderRel_49')^ } \\ & (49) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | - |


|  | INACTIVEWHY - |  |  |  | INACTIVEWHY_other |
| :--- | :---: | :---: | :---: | :---: | :---: |
| ^f('ageGenderRel_50')^ <br> $(50)$ | $\square$ | $\square$ | $\square$ | $\square$ | - |

$\sum_{\text {II }}^{0}$ || Condition f('nDeletedAlters').toNumber()>0

## $\sum_{\text {I }}^{\text {® }} \|$ Condition f('nInputActiveAlters').toNumber()>0



## ALTER_intro

The next section of the survey asks about members of your social network and their experiences. Specifically, we are asking about the experiences of people you know to help us better understand how people interact about flu and COVID19 and how this changes over time. Your responses are very important to us, as is your willingness to complete future surveys.

We are only interested in your perspective - there are no right or wrong answers to any of these questions. If you are uncertain about the answer to a question, please give your best estimate.


## ALTER

[Open Text * Not required]
$\wedge \mathrm{f}($ 'fillParagraph1')^
$\wedge \mathrm{f}($ 'fillParagraph2')^
If you do not wish to add a name or names, please leave the corresponding box or boxes empty.
1 (1)
2 (2)
3 (3)

4 (4)
5 (5)
6 (6)
7 (7)
8 (8)
9 (9)
10 (10)
11 (11)
12 (12)
13 (13)
14 (14)
15 (15)


## SNGender

## [Not required]

The next questions are about each of the people you just named.
For each of the people on the list, indicate if they are a man or a woman. If the person does not identify as either of these categories, please mark "Other".

|  | Male (1) | Female (2) | Other (3) | Don't know (4) |
| :---: | :---: | :---: | :---: | :---: |
| ^f('ALTER_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

## SNRel

[Not required]
For each of the people on the list, indicate the term that best describes how you know them. For example, are they your spouse, a family member, a friend, a coworker, a neighbor, someone who provides you with a service, or something else? If someone fits into more than one category, please select the one that best describes your relationship to that person.

|  | Spouse or other romantic partner <br> (1) | Family member <br> (2) | Friend <br> (3) | Coworker <br> (4) | Service provider (e.g., doctor, grocer, postal carrier) <br> (5) | $\begin{gathered} \text { Other } \\ (6) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Don't know } \\ (7) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge f\left(' A L T E R \_1\right) \wedge(1)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_3')^ ( 3 ) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_5\right)^{\wedge}(5)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_6')^ $(6)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(\right.$ ALTER_7 ${ }^{\prime}{ }^{\wedge}(7)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_8')^ ( 8 ) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(\right.$ ALTER_9 ${ }^{\prime}{ }^{\wedge}(9)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('ALTER_10')^ <br> (10) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & { }^{\wedge}(\text { f'ALTER_11')^ } \\ & (11) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('ALTER_12')^ } \\ & \text { (12) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('ALTER_13')^ } \\ & \text { (13) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('ALTER_14')^ } \\ & \text { (14) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('ALTER_15')^ } \\ & (15) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |

SNF2F -

## [Not required]

For each of the people on the list, indicate how often have you had face-to-face contact with them in the past year.

|  | Weekly (1) | Monthly (2) | Every other month (3) | Yearly (only once) (4) | Never (5) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ 'ALTER_1')^ $(1)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_7\right)^{\wedge}(7)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\left.\wedge f\left(' A L T E R \_8\right)\right)^{\wedge}(8)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_9^{\prime}\right)^{\wedge}(9)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_10\right)^{\prime}{ }^{\wedge}(10)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_11\right)^{\prime}$ ^ (11) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}\left(\right.$ 'ALTER_12')^ $^{\prime}(12)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_13 '\right) \wedge(13)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}\left(\right.$ 'ALTER_14')^ $^{\prime}(14)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_15 '\right) \wedge(15)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |

## SNNonF2F -

[Not required]

For each of the people on the list, indicate how often you have had contact with them other than face to face, such as over the phone, via emails, text messages, etc.

|  | Weekly (1) | Monthly (2) | Every other month (3) | Yearly (only once) (4) | Never (5) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\wedge}($ ('ALTER_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ | ( |
| $\wedge f($ ALTER_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'ALTER_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_5 '\right) \wedge(5)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'ALTER_7')^$(7)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\left.\wedge f\left(' A L T E R \_8\right)\right)^{\wedge}(8)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f\left(' A L T E R \_9^{\prime}\right)^{\wedge}(9)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'ALTER_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('ALTER_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |

## SNNSA -

[Not required]
For each of the people on the list, indicate whether you think that they always get vaccinated for the flu (that is, they get vaccinated every year), sometimes get vaccinated for the flu, or never get vaccinated for the flu. Please answer to the best of your knowledge.

|  | Always vaccinate for the flu (1) | Sometimes vaccinate for the flu (2) | Never vaccinate for the flu (3) | Don't know <br> (4) |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge \mathrm{f}($ 'ALTER_1')^$(1)$ | - | $\square$ | - | $\square$ |
| $\wedge($ ('ALTER_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f(\text { 'ALTER_3 })^{\wedge}$ ^ 3 ) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('ALTER_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ^('ALTER_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ('ALTTER_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ ALTER_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'ALTER_10')^ <br> (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'ALTER_11')^ } \\ & (11) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge_{\mathrm{f}(\text { ('ALTER_12')^ }}^{(12)} \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge_{\mathrm{f}}\left(\text { 'ALTER_13' }^{\prime}\right)^{\wedge}$ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'ALTER_14')^ <br> (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('ALTER_15')^ } \\ & (15) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |

$\sum_{工} \overbrace{\text { I }}$ Condition f('nAddedAlters').toNumber()>0

Condition $\mathrm{f}($ 'nAvailableAlters').toNumber()>0


## SNAge

## [Not required]

$\wedge f($ 'fillSNAge')^ Please select the best answer. If you do not know exactly how old they are, please give your best guess.

|  | $\begin{gathered} \text { 18-25 years } \\ \text { old (1) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 26-35 years } \\ \text { old (2) } \\ \hline \end{gathered}$ | $\begin{gathered} 36-45 \text { years } \\ \text { old (3) } \\ \hline \end{gathered}$ | $\begin{array}{\|c} 46-55 \text { years } \\ \text { old (4) } \end{array}$ | $\begin{gathered} 56-65 \text { years } \\ \text { old (5) } \\ \hline \end{gathered}$ | $\begin{gathered} 66 \text { or } \\ \text { older }(6) \end{gathered}$ | $\begin{gathered} \text { Don't } \\ \text { know }(7) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline \text { ^f('output_alters_01')^ } \\ & (01) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_02')^ } \\ & (02) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_03')^ } \\ & (03) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_04')^ $(04)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_05')^ (05) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_06')^ (06) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \text { f('output_alters_07')^ } \\ & (07) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_08')^ } \\ & (08) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_09')^ $(09)$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ output_alters_10')^ <br> (10) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}(\text { 'output_alters_11')^ }$ (11) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge^{\wedge} \text { f('output_alters_12')^ } \\ & (12) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_13')^ <br> (13) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_15')^ } \\ & (15) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_16')^ (16) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_17')^ (17) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}($ ('output_alters_18')^ (18) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |


|  | $\begin{gathered} \text { 18-25 years } \\ \text { old (1) } \end{gathered}$ | $\begin{gathered} 26-35 \text { years } \\ \text { old (2) } \end{gathered}$ | $\begin{gathered} 36-45 \text { years } \\ \text { old (3) } \end{gathered}$ | $\begin{gathered} 46-55 \text { years } \\ \text { old (4) } \end{gathered}$ | $\begin{gathered} \text { 56-65 years } \\ \text { old (5) } \end{gathered}$ | $\begin{gathered} 66 \text { or } \\ \text { older (6) } \end{gathered}$ | $\begin{gathered} \text { Don't } \\ \text { know (7) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\wedge$ f('output_alters_19')^ (19) (19) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_20')^ } \\ & (20) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ output_alters_21')^ (21) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_22')^ <br> (22) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_23')^ (23) (23) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_24')^ } \\ & (24) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_25')^ (25) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_26')^ $(26)$ (26) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_27')^ <br> (27) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_28')^ (28) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ (29) ('output_alters_29')^ (29) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_30')^ } \\ & (30) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('output_alters_31')^ <br> (31) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_32')^ <br> (32) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_33')^ <br> (33) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_34')^ <br> (34) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_35')^ } \\ & \text { (35) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_36')^ ( ${ }^{\text {( }}$ ) (36) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ (37) $($ output_alters_37')^ (37) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_38')^ (38) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ output_alters_39')^ <br> (39) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_40')^ (40) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \hline \wedge \mathrm{f}(\text { 'output_alters_41')^ } \\ & (41) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_42')^ (42) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_43')^ (43) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_44')^ <br> (44) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'output_alters_45')^ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |


|  | $\begin{gathered} \text { 18-25 years } \\ \text { old (1) } \end{gathered}$ | $\begin{gathered} \text { 26-35 years } \\ \text { old (2) } \end{gathered}$ | $\begin{gathered} 36-45 \text { years } \\ \text { old (3) } \end{gathered}$ | $\begin{gathered} 46-55 \text { years } \\ \text { old (4) } \end{gathered}$ | $\begin{gathered} 56-65 \text { years } \\ \text { old (5) } \end{gathered}$ | $\begin{gathered} 66 \text { or } \\ \text { older (6) } \end{gathered}$ | $\begin{gathered} \text { Don't } \\ \text { know (7) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (45) |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { ^f('output_alters_46')^ } \\ & (46) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_47')^ <br> (47) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_48')^ (48) | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_49')^ } \\ & (49) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_50')^ } \\ & (50) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |

## SNMedicalEssentail -

## [Not required]

For each of the people on the list, indicate if they must regularly leave the house for work, even during lockdown, either because they are a medical professional or have another job requiring them to leave home.

|  | Yes, a medical professional <br> (1) | Yes, must leave the house for work (2) | No (3) | Don't know <br> (4) |
| :---: | :---: | :---: | :---: | :---: |
| ${ }^{\wedge}$ f('output_alters_01')^ <br> (01) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_02')^ } \\ & (02) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_03')^ } \\ & (03) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_04')^ } \\ & (04) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_05')^ (05) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_06')^ (06) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_07')^ } \\ & (07) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \hline \wedge \mathrm{f}(\text { 'output_alters_08')^ } \\ & (08) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_09')^ (09) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'output_alters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_11')^ <br> (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge^{\wedge}($ ('output_alters_12')^ <br> (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_14')^ <br> (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}($ ('output_alters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_16')^ (16) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_17')^ <br> (17) | $\square$ | $\square$ | $\square$ | $\square$ |


|  | Yes, a medical professional <br> (1) | Yes, must leave the house for work (2) | $\begin{aligned} & \text { No } \\ & \text { (3) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Don't know } \\ (4) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| ^f('output_alters_18')^ (18) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_19')^ } \\ & (19) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_20')^ } \\ & (20) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_21')^ } \\ & \text { (21) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_22')^ (22) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_23')^ } \\ & (23) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_24')^ } \\ & (24) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_25')^} \\ & (25) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_26')^ (26) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_27')^ } \\ & \text { (27) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge f(\text { 'output_alters_28')^ } \\ & (28) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_29')^ (29) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_30')^ (30) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_31')^ } \\ & \text { (31) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_32')^ } \\ & \text { (32) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_33')^ } \\ & \text { (33) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_34')^ } \\ & \text { (34) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_35')^ } \\ & \text { (35) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_36')^ } \\ & (36) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_37')^ } \\ & \text { (37) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_38')^ (38) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_39')^ } \\ & \text { (39) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_40')^ } \\ & (40) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_41')^ } \\ & (41) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'output_alters_42')^ (42) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_43')^ } \\ & \text { (43) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_44')^ | $\square$ | $\square$ | $\square$ | $\square$ |


|  | Yes, a medical professional <br> (1) | Yes, must leave the house for work (2) | No <br> (3) | Don't know <br> (4) |
| :---: | :---: | :---: | :---: | :---: |
| (44) |  |  |  |  |
| ${ }^{\wedge}$ f('output_alters_45')^ (45) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_46')^ } \\ & (46) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_47')^ (47) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_48')^ } \\ & (48) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ( $($ ('output_alters_ (49') $)$ (49) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'output_alters_50')^ <br> (50) | $\square$ | $\square$ | $\square$ | $\square$ |

## SNTalkCOVID

## [Not required]

For each of the people on the list, indicate whether you would be comfortable talking to that person about COVID-19 and COVID-19 vaccination?

|  | Yes, very comfortable (1) | Yes, somewhat comfortable (2) | No, somewhat uncomfortable (3) | No, very uncomfortable (4) |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge^{\wedge}(\text { ('output_alters_01')^}$ (01) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_02')^ } \\ & (02) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_03')^ (03) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_04')^ <br> (04) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_05')^ $(05)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_06')^ $(06)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_07')^ <br> (07) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_08')^ (08) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'output_alters_09')^ (09) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('output_alters_10')^ <br> (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_11')^ <br> (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge^{\wedge} \text { f('output_alters_12')^ } \\ & (12) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}(\text { 'output_alters_13')^}$ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_14')^ <br> (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'output_alters_15')^ <br> (15) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_16')^ (16) | $\square$ | $\square$ | $\square$ | $\square$ |


|  | Yes, very comfortable (1) | Yes, somewhat comfortable (2) | No, somewhat uncomfortable (3) | No, very uncomfortable (4) |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { ^f('output_alters_17')^ } \\ & (17) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_18')^ (18) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_19')^ (19) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_20')^ (20) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_21')^ } \\ & (21) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \text { ^f('output_alters_22')^ } \\ & (22) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_23')^ } \\ & \text { (23) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_24')^ } \\ & (24) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_25')^ (25) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & { }^{\wedge} \mathrm{f}(\text { 'output_alters_26')^ } \\ & (26) \\ & \hline \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \text { f('output_alters_27')^ } \\ & (27) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge f(\text { 'output_alters_28')^ } \\ & (28) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_29')^ (29) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_30')^ } \\ & (30) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}(\text { 'output_alters_31')^}$ (31) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_32')^ } \\ & \text { (32) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_33')^ } \\ & \text { (33) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_34')^ } \\ & \text { (34) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_35')^ } \\ & \text { (35) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_36')^ } \\ & \text { (36) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_37')^ <br> (37) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \text { ^f('output_alters_38')^ } \\ & \text { (38) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge f(\text { 'output_alters_39')^ } \\ & \text { (39) } \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'output_alters_40')^ } \\ & (40) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('output_alters_41')^ <br> (41) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}(\text { 'output_alters_42')^}$ (42) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'output_alters_43')^ | $\square$ | $\square$ | $\square$ | $\square$ |


|  |  | Yes, very comfortable (1) | Yes, somewhat comfortable (2) | No, somewhat uncomfortable (3) | No, very uncomfortable (4) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (43) |  |  |  |  |  |
| $\begin{aligned} & \wedge \mathrm{f}(\mathrm{o} \\ & (44) \\ & \hline \end{aligned}$ | atput_alters_44')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\mathrm{o} \\ & (45) \\ & \hline \end{aligned}$ | atput_alters_45')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\mathrm{ob} \\ & (46) \\ & \hline \end{aligned}$ | utput_alters_46')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & { }^{\wedge} \mathrm{f}(\mathrm{o} \\ & \text { (47) } \end{aligned}$ | atput_alters_47')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \hline{ }^{\wedge} \mathrm{f}(\mathrm{o} \\ & \text { (48) } \\ & \hline \end{aligned}$ | tput_alters_48')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\mathrm{o} \\ & \mathrm{C} \\ & \mathrm{49}) \\ & \hline \end{aligned}$ | tput_alters_49')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\mathrm{o} \\ & (50) \\ & \text { ( } \end{aligned}$ | tput_alters_50')^ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & z \\ & \text { Z } \\ & \text { B } \\ & \frac{1}{2} \end{aligned}$ | $\mathrm{f}($ 'nOutputActiveAlters').toNumber()>1 |  |  |  |  |
|  | true <br> Info AlterTies_intro () |  | false |  |  |

## AlterTies_intro

The next set of questions ask if the people you named know each other. The first question will start with the first person and ask if they know each of the other people on your list. The next page will focus on the next person, and so on. Each page will have a shorter list of names, so the questions will be easier to answer as you go on.

## AlterTies1

## [Not required]

Please indicate if $\wedge f($ 'outputActiveAlters_1')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | Don't know (4) |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ 'outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_2')^$(2)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_11')^ <br> (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_13')^ | $\square$ | $\square$ | $\square$ | $\square$ |


|  | They don't know <br> each other (1) | Know, but no regular <br> face-to-face contact (2) | Know and have regular <br> face-to-face contact (3) | Don't <br> know (4) |
| :--- | :---: | :---: | :---: | :---: |
| $(13)$ <br> $\mathrm{f}($ 'outputActiveAlters_14')^ <br> $(14)$ | $\square$ |  |  |  |
| $\wedge \mathrm{f}($ 'outputActiveAlters_15')^ <br> $(15)$ | $\square$ | $\square$ | $\square$ |  |



## AlterTies2

## [Not required]

Please indicate if $\wedge f($ outputActiveAlters_2')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don’t } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}($ ('outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_11')^ <br> (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge^{\wedge}(\text { 'outputActiveAlters_12')^ } \\ & (12) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

f('nOutputActiveAlters').toNumber() $>3$
true
false
Question AlterTies3()

## AlterTies3

## [Not required]

Please indicate if $\wedge f\left(\text { 'outputActiveAlters_ } 3^{\prime}\right)^{\wedge}$ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_1')^$(1)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_2')^ $(2)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_3')^$(3)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_7')^ $(7)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_8')^ $(8)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_9')^ $(9)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f('$ outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_14')^ <br> (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

## $\sum_{\text {II }}^{0}$ || Condition f('nOutputActiveAlters').toNumber() $>3$



## AlterTies4

[Not required]

Please indicate if $\wedge f($ 'outputActiveAlters_4')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_4'^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge^{\wedge} \mathrm{f}($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge^{\wedge} \mathrm{f}($ 'outputActiveAlters_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |
| Condition f('nOutputActiveAlters').toNumber()>4 |  |  |  |  |
| $\mathrm{f}($ 'nOutputActiveAlters').toNumber()>5 |  |  |  |  |
| trueQuestion AlterTies5() |  | false |  |  |

## AlterTies5

## [Not required]

Please indicate if $\wedge f($ 'outputActiveAlters_5')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ 'outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_6')^ $(6)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_7')^$(7)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_8')^$(8)$ | $\square$ | $\square$ | $\square$ | $\square$ |


|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge \mathrm{f}(\text { 'outputActiveAlters_10')^ } \\ & (10) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f('$ outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f('$ outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

## $\sum_{\text {[1 }} \mathrm{E}^{| |}$Condition $\mathrm{f}($ 'nOutputActiveAlters').toNumber( $)>5$

f('nOutputActiveAlters').toNumber()>6

## AlterTies6

## [Not required]

Please indicate if $\wedge f($ 'outputActiveAlters_6')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ 'outputActiveAlters_1')^ (1) | $\square$ | $\square$ | - | - |
| $\wedge f($ 'outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_7')^ 7 ( | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_11')^ <br> (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |


|  | They don't know <br> each other (1) | Know, but no regular <br> face-to-face contact (2) | Know and have regular <br> face-to-face contact (3) | Don't <br> know (4) |
| :--- | :---: | :---: | :---: | :---: |
| $\wedge f('$ outputActiveAlters_15')^ <br> $(15)$ | $\square$ | $\square$ | $\square$ | $\square$ |

## $\sum_{\text {II }}$ Condition $\mathrm{f}($ 'nOutputActiveAlters').toNumber() $>6$



## AlterTies7

## [Not required]

Please indicate if $\wedge f(\text { 'outputActiveAlters_7' })^{\wedge}$ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge_{\mathrm{f}}(\text { 'outputActiveAlters_12')^ } \\ & (12) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

## $\sum_{工}$ <br> Condition f('nOutputActiveAlters').toNumber()>7

| true | false |
| :---: | :---: |
| Question AlterTies8() |  |

## AlterTies8

## [Not required]

Please indicate if $\wedge f($ outputActiveAlters_8')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_12')^ <br> (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_14') $\wedge$ <br> (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge}$ f('outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

## $\sum_{\text {II }}^{0}$ ( Condition f('nOutputActiveAlters').toNumber() $>8$

| Z | f('nOutputActiveAlters').toNumber()>9 |
| :--- | :--- | :--- |
| Z |  |
| true |  |
| Question AlterTies9 () |  |

## AlterTies9

[Not required]
Please indicate if $\wedge f(\text { 'outputActiveAlters_9' })^{\wedge}$ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

| They don't know |
| :--- |
| each other (1) |

Know, but no regular face-to-face contact (2)

Know and have regular face-to-face contact (3)

Don't know (4)


## AlterTies10

[Not required]
Please indicate if $\wedge \mathrm{f}($ 'outputActiveAlters_10')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know }(4) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge \mathrm{f}($ 'outputActiveAlters_1')^$(1)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_2')^ $(2)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_4')^$(4)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_7')^ $(7)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_8')^$(8)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_9')^$(9)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_10')^ <br> (10) | $\square$ | $\square$ | $\square$ | $\square$ |



## AlterTies11

## [Not required]

Please indicate if $\wedge^{\wedge} \mathrm{f}($ outputActiveAlters_11')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | Don't know (4) |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge f($ 'outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}$ ('outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_3')^ (3) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}$ ('outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_7')^ (7) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_8')^ (8) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_11')^ <br> (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

true

Question ALterTies12()

## ALterTies 12

[Not required]
Please indicate if $\wedge^{\wedge} \mathrm{f}($ 'outputActiveAlters_12')$\wedge$ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_1')^$(1)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_2')^$(2)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_3')^$(3)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_7')^$(7)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_8')^$(8)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_9')^ (9) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge^{\wedge}($ ('outputActiveAlters_10')^ (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_13')^ <br> (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| ${ }^{\wedge} \mathrm{f}($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

Condition f('nOutputActiveAlters').toNumber()>12
$\mathrm{f}($ 'nOutputActiveAlters').toNumber()>13
true
false
Question AlterTies13()

## AlterTies13

## [Not required]

Please indicate if $\wedge \mathrm{f}^{\prime}($ outputActiveAlters_13')^ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge \mathrm{f}($ 'outputActiveAlters_1')^ (1) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_3')^$(3)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_4')^$(4)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ('outputActiveAlters_5')^ (5) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ('outputActiveAlters_6')^ (6) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ f('outputActiveAlters_7 ${ }^{\text {¢ }}$ ) ${ }^{\wedge}(7)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge$ ('outputActiveAlters_8')^ ${ }^{\text {( }} 8$ ) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_9')^$(9)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\begin{aligned} & \wedge f(\text { 'outputActiveAlters_10')^ } \\ & (10) \end{aligned}$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_12')^ (12) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |

## $\sum_{\text {II }}^{2} \|$ Condition $\mathrm{f}($ 'nOutputActiveAlters').toNumber() $>13$



## AlterTies14

[Not required]
Please indicate if $\wedge \mathrm{f}\left(\right.$ 'outputActiveAlters_14')^${ }^{\wedge}$ knows each of the people below. If yes, please indicate if they have had regular face-to-face contact in the past year or so.

|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge \mathrm{f}($ 'outputActiveAlters_1')^$(1)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_2')^ (2) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_3')^$(3)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_4')^ (4) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ 'outputActiveAlters_5')^ (5) |  |  | $\square$ | , |


|  | They don't know each other (1) | Know, but no regular face-to-face contact (2) | Know and have regular face-to-face contact (3) | $\begin{gathered} \text { Don't } \\ \text { know (4) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\wedge \mathrm{f}($ 'outputActiveAlters_6')^$(6)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_7')^$(7)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge f($ outputActiveAlters_8')^$(8)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_9')^$(9)$ | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_10')^ <br> (10) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_11')^ (11) | $\square$ | $\square$ | $\square$ | $\square$ |
| ```^f('outputActiveAlters_12')^ (12)``` | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_13')^ (13) | $\square$ | $\square$ | $\square$ | $\square$ |
| ^f('outputActiveAlters_14')^ (14) | $\square$ | $\square$ | $\square$ | $\square$ |
| $\wedge \mathrm{f}($ 'outputActiveAlters_15')^ (15) | $\square$ | $\square$ | $\square$ | $\square$ |



## AlterCOVID

[Not required]
Thinking of all the people on your list, do you know if any of these people have had a severe case of COVID-19 (including hospitalization or death)?

O No, I am not aware of any of them having a severe case (1)
O Yes, one of these people has had a severe case (2)
O Yes, more than one of these people has had a severe case (3)
O Don't know or don't remember (4)

## AlterAlterCOVID

## [Not required]

Thinking again of all the people on your list, have you had any conversations with any of them about people they know who had a severe case of COVID-19 (including hospitalization or death)?

O No, I have not had such conversations (1)
O Yes, I have had such a conversation once (2)
O Yes, I have had multiple such conversations (3)
O Don't know or don't remember (4)

## SNHighRisk

[Not required]

Do you have frequent, close contact with individuals in any of the following groups? Please include individuals in your household.

Please check all that apply.
$\square$ People over age 65 (1)
Pregnant people (2)
Infants under one year of age (3)
$\square$ People with weakened immune systems (4)
People with other high-risk medical conditions (5)
O None of the above (6) [Exclusive]

## Section8_intro

Indicate how often you feel the way described in each of the following statements.

## LS1

[Not required]
I lack companionship.
O Never (1)
O Rarely (2)
O Sometimes (3)
O Often (4)

## LS2

[Not required]
I feel part of a group of friends.
O Never (1)
O Rarely (2)
O Sometimes (3)
O Often (4)

## LS3

[Not required]
I feel left out.
O Never (1)
O Rarely (2)
O Sometimes (3)
O Often (4)

## LS4

[Not required]
I feel isolated from others.
O Never (1)
O Rarely (2)
O Sometimes (3)
O Often (4)

## LS5

[Not required]
I am unhappy being so withdrawn.

O Never (1)
O Rarely (2)
O Sometimes (3)
O Often (4)

## LS6

[Not required]
People are around me but not with me.
O Never (1)
O Rarely (2)
O Sometimes (3)
O Often (4)

## CS_001-CS_001

[Not required]
Could you tell us how interesting or uninteresting you found the questions in this interview?
O Very interesting (1)
O Interesting (2)
O Neither interesting nor uninteresting (3)
O Uninteresting (4)
O Very uninteresting (5)

