O No knowledge

O Fundamental awareness

Years of programming experience (this incleapacity, as well as any programming done 0 0 - 1 0 1 - 3 0 3 - 5 0 5+	udes programming in a professional or studente on your own time)
transformation, and visualization of data for Relevant analysis tools include the use of software such as Stata, SPSS, shell-based visualization software such as Tableau, dat programming languages such as R, Julia, N	rabase query languages such as SQL, Matlab/Octave, or the use data-centric libraries Pandas/Numpy/SciPy in Python, among others
You have experience with (Mark all that app	ply)
Python Pandas (Python library) SQL Julia R	 Matlab SAS Stata Shell tools (e.g. sed, awk)
Select your experience level with the Pytho	on library Pandas

Qualtrics Survey Software

validation

Expert

Read the code fragment below and then answer the question regarding its intended behavior

import pandas as pd

```
df = pd.read_csv('data.csv')
df['col1'] = df['col1'].map(lambda x: x * 2)
```

The code fragment above

- Removes column named col1
- O Scales column named col1
- O Creates a dictionary/map using a column named col1

Survey Introduction: Background Setting

Background

As you proceed through this survey, picture yourself in the following role. You work at a large data analytics company, and your job consists of preparing datasets for use by other analysts. Preparing a dataset in this context means taking an input dataset, in the form of tabular data (e.g. a spreadsheet) and transforming it to add additional information, normalizing values and their representation, removing or renaming columns, among others. In general, you could refer to these tasks as "data wrangling" or "data munging". For example, a typical dataset transformation might be to add a column that derives additional data from an existing column (e.g. splitting an address column into a city and state columns). As part of your job, you are often presented with new datasets, some of which may or may not have detailed data documentation. In this context, data documentation refers to a catalogue-style manual that describes the meaning of each column, the expected values, and their appropriate representation (e.g. are the values

numeric, or are they strings, do they come from a limited set of values). To carry out your data preparation tasks you typically use a standard programming language such as Python and the accompanying data analysis library ecosystem (e.g. Pandas, Numpy, Scikit-learn, Scipy, among others).

You have been asked to evaluate six sets of five code snippets, each set associated with a specific task on a single dataset. Code snippets may or may not be relevant to the task at hand. Your job will be to answer questions about these snippets, such as their relevance and ordering, given the task at hand.

In the following section we introduce the dataset you have been tasked on working with.

Dataset 1 Overview

Dataset: Loan data

Your company recently acquired a new client, a loan issuer, and they would like your help in preparing one of their key datasets: loan issuance data. The loan issuance data consists of a single comma-separated values (csv) file, which reports the individual loan and corresponding borrower details for 800,000 loans. This information is represented using 74 different columns, such as *id* (unique loan identifier), *loan_amt* (the total dollar amount that was issued), *member_id* (an id for the borrower), and so on. This dataset is particularly valuable for your client as they can use it to perform critical analyses, including predicting borrower defaults (i.e. borrowers who will fail to make payments and give up on their payment plan), borrower prepayments (i.e. borrowers who will pay off loans earlier than expected), and borrower delinquencies (i.e. borrowers who will fall behind on payments but have not yet default). For a loan issuer these analyses are critical, as they are used to monitor their current portfolio of loans and make future issuance decisions as well.

Dataset 1, Task 1

New Task

Your task is to identify the subset of loans in the dataset that are not current. In this context, not current means the borrower is not up to date on their required payments. In order to subset these loans, you can make use of the column

named *loan_status*. Grouping loans into current and not-current may be useful as these borrowers may have different credit profiles and behaviors.

The general task (i.e. ignoring dataset domain) is reflective of tasks you, as a participant, might perform in your own data analyses.

- O Strongly agree
- Agree
- Somewhat agree
- Neither agree nor disagree
- Somewhat disagree
- O Disagree
- Strongly disagree

Dataset 1, Task 1: Treatment group

Task Reminder

Your task is to identify the subset of loans in the dataset that are not current. In this context, not current means the borrower is not up to date on their required payments. In order to subset these loans, you can make use of the column named *loan_status*. Grouping loans into current and not-current may be useful as these borrowers may have different credit profiles and behaviors.

```
# Fragment 0
def f0(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read_csv('../input/loan.csv', low_memory=False)
    df = df.loc[(df['loan_status'] != 'Current')]
    return df
```

```
# Fragment 1
def f1(df):
    # core cleaning code
```

```
import pandas as pd
    # df = pd.read csv('../input/loan.csv')
    df = df[((df.loan status == 'Fully Paid') |
             (df.loan status == 'Charged Off'))]
    return df
# Fragment 2
def f2(data):
    # core cleaning code
    import pandas as pd
    # data = pd.read csv('../input/loan.csv', parse dates=True)
    data = data[(data.loan status != 'Fully Paid')]
    return data
# Fragment 3
def f3(df loan):
    # core cleaning code
    import pandas as pd
    # df loan = pd.read csv('../input/loan.csv', low memory=False)
    df loan.loc[((
        df_loan.loan status ==
        'Does not meet the credit policy. Status: Fully Paid'
    ), 'loan status')] = 'NMCP Fully Paid'
    df loan.loc[((
        df loan.loan status ==
        'Does not meet the credit policy. Status: Charged Off'
    ), 'loan status')] = 'NMCP Charged Off'
    return df loan
# Fragment 4
def f4(data):
    # core cleaning code
```

Lancar Landon on ad

Somewhat disagree

Strongly disagree

Disagree

```
IMPOIT pandas as pu
    # data = pd.read_csv('../input/loan.csv')
    bad indicators = [
         'Charged Off ', 'Default',
         'Does not meet the credit policy. Status: Charged Off',
         'In Grace Period', 'Default Receiver', 'Late (16-30 days)',
         'Late (31-120 days)'
     1
    data.loc[(data.loan status.isin(bad indicators), 'bad loan')] =
    return data
Which fragment snippets do you consider relevant to the task? You may leave blank if
none appear relevant.
   Fragment 0
                                          Fragment 3
    Fragment 1
                                          Fragment 4
    Fragment 2
Which snippet do you consider to be most relevant to the task? (choose None, if none are
relevant)
 Fragment 0
                                       Fragment 3
 Fragment 1
                                        Fragment 4
 Fragment 2
                                          None
Access to these snippets makes completing the task easier
 O Strongly agree
 Agree
 Somewhat agree
 Neither agree nor disagree
```

Dataset 1, Task 1: Control group

Task Reminder

Your task is to identify the subset of loans in the dataset that are not current. In this context, not current means the borrower is not up to date on their required payments. In order to subset these loans, you can make use of the column named *loan_status*. Grouping loans into current and not-current may be useful as these borrowers may have different credit profiles and behaviors.

```
# Fragment 0
def f0(loan):
   # core cleaning code
    import pandas as pd
    # loan = pd.read csv('../input/loan.csv')
    del cols = [
        'id', 'member id', 'policy code', 'url', 'zip code', 'addr s
        'pymnt plan', 'emp title', 'application type', 'acc now deli
        'title', 'collections 12 mths ex med', 'collection recovery
    1
    loan = loan.drop(del cols, axis=1)
    loan = loan[(loan['loan status'] != 'Current')]
    loan.loc[((loan['emp length'] == '< 1 year'), 'empl exp')] = 'in</pre>
    loan.loc[((loan['emp_length'] == '1 year'), 'empl_exp')] = 'new'
    loan.loc[((loan['emp length'] == '2 years'), 'empl exp')] = 'new
    loan.loc[((loan['emp length'] == '3 years'), 'empl exp')] = 'new
    loan.loc[((loan['emp length'] == '4 years'), 'empl exp')] = 'int
    loan.loc[((loan['emp length'] == '5 years'), 'empl exp')] = 'int
    loan.loc[((loan['emp length'] == '6 years'), 'empl exp')] = 'int
    loan.loc[((loan['emp_length'] == '7 years'), 'empl_exp')] = 'sea
    loan.loc[((loan['emp length'] == '8 years'), 'empl exp')] = 'sea
    loan.loc[((loan['emp length'] == '9 years'), 'empl exp')] = 'sea
    loan.loc[((loan['emp length'] == 'n/a'), 'empl exp')] = 'unknown
    return loan
```

return dataset

```
# Fragment 1
def f1(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read csv('../input/loan.csv', low memory=False)
    df = df.rename(
        columns={
            'loan amnt': 'loan amount',
            'funded amnt': 'funded amount',
            'funded amnt inv': 'investor funds',
            'int rate': 'interest rate',
            'annual inc': 'annual income'
        }
    )
    group dates = df.groupby(['complete date', 'region'], as index=F
    group dates = group dates.groupby(['issue d', 'region'],
                                       as index=False).sum()
    group dates = group dates.groupby(['issue d', 'region'],
                                       as index=False).sum()
    group dates['loan amount'] = (group dates['loan amount'] / 1000)
    by loan amount = df.groupby(['region', 'addr state'],
                                 as index=False).loan amount.sum()
    return by loan amount
# Fragment 2
def f2(dataset):
    # core cleaning code
    import pandas as pd
    # dataset = pd.read csv('../input/loan.csv', low memory=False)
    dataset = dataset.fillna(0)
    dataset['verification status joint'] = dataset[
        'verification status joint'].astype('category').cat.codes
```

```
# Fragment 3
def f3(dataset):
    # core cleaning code
    import pandas as pd
    # dataset = pd.read csv('../input/loan.csv', low memory=False)
    dataset = dataset.fillna(0)
    dataset['loan status'] = dataset['loan status'].astype(
         'category'
    ).cat.codes
    return dataset
# Fragment 4
def f4(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read csv('../input/loan.csv', low memory=False)
    df = df.loc[(df['loan status'] != 'Current')]
    return df
Which fragment snippets do you consider relevant to the task? You may leave blank if
none appear relevant.
    Fragment 0
                                         Fragment 3
   Fragment 1
                                         Fragment 4
    Fragment 2
Which snippet do you consider to be most relevant to the task? (choose None, if none are
relevant)
 Fragment 0
                                     Fragment 3
                                        Fragment 4
 Fragment 1
 Fragment 2
                                        None
```

Access to these snippets makes completing the task easier
O Strongly agree
O Agree
O Somewhat agree
O Neither agree nor disagree
O Somewhat disagree
O Disagree
O Strongly disagree
Dataset 1, Task 2
New Task
Your task is to transform the interest rate column (int_rate) by rounding it to the nearest nteger. This can be useful to group loans by whole-number interest rates (e.g. all loans with a 3% interest rate, without distinguishing between those loans that have a 3.1% an
3.5% rate). This may be typically done as large increases in the interest rate may reflect ower creditworthiness.
The general task (i.e. ignoring dataset domain) is reflective of tasks you, as a participant might perform in your own data analyses.
O Strongly agree
O Agree
O Somewhat agree
O Neither agree nor disagree
O Somewhat disagree
O Disagree
O Strongly disagree

Dataset 1, Task 2: Treatment Group

Task Reminder

Your task is to transform the interest rate column (int_rate) by rounding it to the nearest integer. This can be useful to group loans by whole-number interest rates (e.g. all loans

with a 3% interest rate, without distinguishing between those loans that have a 3.1% and 3.5% rate). This may be typically done as large increases in the interest rate may reflect lower creditworthiness.

Read the following 5 code fragments and then answer the questions below.

```
# Fragment 0
def f0(df loan):
    # core cleaning code
    import pandas as pd
    # df loan = pd.read csv('../input/loan.csv', low memory=False)
    df loan['int round'] = df loan['int rate'].round(0).astype(int)
    return df loan
# Fragment 1
def f1(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read csv('../input/loan.csv', low memory=False)
    df = df.rename(
        columns={
            'loan_amnt': 'loan amount',
            'funded_amnt': 'funded amount',
            'funded_amnt_inv': 'investor_funds',
            'int rate': 'interest_rate',
            'annual inc': 'annual income'
        }
    )
    return df
# Fragment 2
def f2(data):
```

core cleaning code

```
import pandas as pd
    # data = pd.read csv('../input/loan.csv', low memory=False)
    data['emp length'] = data['emp length'].astype(int)
    return data
# Fragment 3
def f3(dataset):
    # core cleaning code
    import pandas as pd
    # dataset = pd.read csv('../input/loan.csv', low memory=False)
    dataset = dataset.fillna(0)
    dataset['term'] = dataset['term'].astype('category').cat.codes
    return dataset
# Fragment 4
def f4(dataset):
    # core cleaning code
    import pandas as pd
    # dataset = pd.read csv('../input/loan.csv', low memory=False)
    dataset = dataset.fillna(0)
    dataset['verification status joint'] = dataset[
        'verification status joint'].astype('category').cat.codes
    return dataset
```

Whi	ch fragment snippets do you consider re	leva	nt to the task? You may leave blank if
none	e appear relevant.		
	Fragment 0 Fragment 1 Fragment 2		Fragment 3 Fragment 4
	ch snippet do you consider to be most re vant)	eleva	ant to the task? (choose None, if none are
000	Fragment 0 Fragment 1 Fragment 2	000	Fragment 3 Fragment 4 None
Acc	ess to these snippets makes completing	the	task easier
0	Strongly agree		
0	Agree		
0	Somewhat agree		
0	Neither agree nor disagree		
0	Somewhat disagree		
0	Disagree		
0	Strongly disagree		

Dataset 1, Task 2: Control group

Task Reminder

Your task is transform the interest rate column (*int_rate*) by rounding it to the nearest integer. This can be useful to group loans by whole-number interest rates (e.g. all loans with a 3% interest rate, without distinguishing between those loans that have a 3.1% and 3.5% rate). This may be typically done as large increases in the interest rate may reflect lower creditworthiness.

```
def f0(loan):
    # core cleaning code
    import numpy as np
    import pandas as pd
    # loan = pd.read csv('../input/loan.csv', low memory=False)
    loan['title'] = np.where(loan['title'].isnull(), 0, loan['title']
    return loan
# Fragment 1
def f1(dataset):
    # core cleaning code
    import pandas as pd
    # dataset = pd.read csv('../input/loan.csv', low memory=False)
    dataset = dataset.fillna(0)
    dataset['verification status'] = dataset['verification status'].
        'category'
    ).cat.codes
    return dataset
# Fragment 2
def f2(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read csv('../input/loan.csv', low memory=False)
    df = df.rename(
        columns={
            'loan_amnt': 'loan_amount',
            'funded amnt': 'funded amount',
            'funded amnt inv': 'investor funds',
            'int rate': 'interest rate',
            'annual inc': 'annual income'
        }
    )
    group dates = df.groupby(['complete date', 'region'], as index=F
```

```
group dates = group dates.groupby(['issue d', 'region'],
                                       as index=False).sum()
    group dates = group dates.groupby(['issue d', 'region'],
                                       as index=False).sum()
    group dates['loan amount'] = (group dates['loan amount'] / 1000)
   by loan amount = df.groupby(['region', 'addr state'],
                                 as index=False).loan amount.sum()
   by interest rate = df.groupby(['region', 'addr state'],
                                   as index=False).interest rate.mean
    return by interest rate
# Fragment 3
def f3(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read csv('../input/loan.csv', usecols=['loan amnt', 'a
    statePop = {
        'CA': 39144818,
        'TX': 27469144,
        'FL': 20271878,
        'NY': 19795791,
        'IL': 12859995,
        'PA': 12802503,
        'OH': 11613423,
        'GA': 10214860,
        'NC': 10042802,
        'MI': 9922576,
        'NJ': 8958013,
        'VA': 8382993,
        'WA': 7170351,
        'AZ': 6828065,
        'MA': 6794422,
        'IN': 6619680,
        'TN': 6600299,
        'MO': 6083672,
```

}

'MD': 6006401,

```
'WI': 5771337,
    'MN': 5489594,
    'CO': 5456574,
    'SC': 4896146,
    'AL': 4858979,
    'LA': 4670724,
    'KY': 4425092,
    'OR': 4028977,
    'OK': 3911338,
    'CT': 3890886,
    'IA': 3123899,
    'UT': 2995919,
    'MS': 2992333,
    'AK': 2978204,
    'KS': 2911641,
    'NV': 2890845,
    'NM': 2085109,
    'NE': 1896190,
    'WV': 1844128,
    'ID': 1654930,
    'HI': 1431603,
    'NH': 1330608,
    'ME': 1329328,
    'RI': 1053298,
    'MT': 1032949,
    'DE': 945934,
    'SD': 858469,
    'ND': 756927,
    'AK': 738432,
    'DC': 672228,
    'VT': 626042,
    'WY': 586107
statePopdf = pd.DataFrame.from dict(statePop, orient='index').re
return statePopdf
```

```
# Fragment 4
def f4(df):
    # core cleaning code
    import pandas as pd
    from sklearn.preprocessing import LabelEncoder, OneHotEncoder
    # df = pd.read csv('../input/loan.csv')
    df = df[((df.loan status == 'Fully Paid') |
             (df.loan status == 'Charged Off'))]
    df = df[(df['pymnt plan'] == 'n')]
    df = df[(df['application type'] == 'INDIVIDUAL')]
    df1 = df.drop(
        columns=[
            'policy code', 'next pymnt d', 'out prncp', 'out prncp i
            'pymnt plan', 'initial list status', 'member id', 'id',
            'application type', 'grade', 'annual inc joint', 'dti jo
        ]
    )
    df1 = df1.drop(
        columns=[
            'verification status joint', 'open acc 6m', 'open il 6m'
            'open il 12m', 'open il 24m', 'mths since rcnt il', 'tot
            'il util', 'open rv 12m', 'open rv 24m', 'max bal bc', '
            'inq_fi', 'total_cu_tl', 'inq_last_12m'
        ]
   df1 = df1.drop(columns=['mths since last major derog'])
    lbl enc = LabelEncoder()
    df1[(x + ' old')] = df[x]
   df1[x] = lbl enc.fit transform(df1[x])
   df1[(x + ' old')] = df[x]
    df1[x] = df1[x]
    df1[x] = lbl enc.fit transform(df1[x])
    dfl.earliest cr line = pd.to datetime(dfl.earliest cr line, form
```

df1['earliest_cr_line_month'] = df1.earliest_cr_line.dt.month
return df1

Which fragment snippets do you consider relevant to the task? You may leave blank if none appear relevant.

- Fragment 0
- Fragment 1
- Fragment 2

Which snippet do you consider to be most relevant to the task? (choose None, if none are relevant)

- O Fragment 0
- Fragment 1
- O Fragment 2

- O Fragment 3
 - Fragment 4

Fragment 3

Fragment 4

None

Access to these snippets makes completing the task easier

- O Strongly agree
- Agree
- O Somewhat agree
- O Neither agree nor disagree
- O Somewhat disagree
- O Disagree

Dataset 1, Task 3

New Task

Your task is to compute the issuance month and year associated with each loan. You can use the *issue_d* column, which represents the issuance date for each loan. Computing the month/year of issuance can be useful to summarize total issuance amounts per year and during a year and observe changes.

The general task (i.e. ignoring dataset domain) is reflective of tasks you, as a participant, might perform in your own data analyses.

U	Strongly	agree

- Agree
- O Somewhat agree
- O Neither agree nor disagree
- Somewhat disagree
- O Disagree
- O Strongly disagree

Dataset 1, Task 3: Treatment Group

Task Reminder

Your task is to compute the issuance month and year associated with each loan. You can use the *issue_d* column, which represents the issuance date for each loan. Computing the month/year of issuance can be useful to summarize total issuance amounts per year and during a year and observe changes.

```
# Fragment 0
def f0(df_loan):
    # core cleaning code
    import pandas as pd
    # df_loan = pd.read_csv('../input/loan.csv', low_memory=False)
    df loan['issue d'] = pd.to datetime(df loan['issue d'])
```

```
return df_loan
```

```
# Fragment 1
def f1(data):
    # core cleaning code
    import pandas as pd
    # data = pd.read csv('../input/loan.csv', low memory=False)
    data.earliest cr line = pd.to datetime(data.earliest cr line)
    return data
# Fragment 2
def f2(df loan):
    # core cleaning code
    import pandas as pd
    # df loan = pd.read csv('../input/loan.csv', low memory=False)
    (df loan['issue month'],
     df loan['issue year']) = df loan['issue d'].str.split('-', 1).s
    return df loan
# Fragment 3
def f3(data):
    # core cleaning code
    import pandas as pd
    # data = pd.read csv('../input/loan.csv')
    data['issue dt'] = pd.to datetime(data.issue d)
    return data
# Fragment 4
def f4(data):
    # core cleaning code
    import pandas as pd
    # data = pd.read csv('../input/loan.csv')
```

O Strongly agree

O Somewhat agree

Neither agree nor disagree

Agree

```
data['issue_dt'] = pd.to_datetime(data.issue_d)
data['month'] = data['issue_dt'].dt.month
return data
```

Which fragment snippets do you consider relevant to the task? You may leave blank if none appear relevant. Fragment 0 Fragment 3 Fragment 1 Fragment 4 Fragment 2 Which snippet do you consider to be most relevant to the task? (choose None, if none are relevant) Fragment 0 Fragment 3 Fragment 1 Fragment 4 Fragment 2 None Access to these snippets makes completing the task easier

- Somewhat disagreeDisagree
- O Strongly disagree

Dataset 1, Task 3: Control group

Task Reminder

Your task is to compute the issuance month and year associated with each loan. You can use the *issue_d* column, which represents the issuance date for each loan. Computing the month/year of issuance can be useful to summarize total issuance amounts per year and during a year and observe changes.

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```
# Fragment 0
def f0(dataset):
    # core cleaning code
    import pandas as pd
    # dataset = pd.read_csv('../input/loan.csv', low_memory=False)
    dataset = dataset.fillna(0)
    dataset['term'] = dataset['term'].astype('category').cat.codes
    return dataset
```

```
'policy code', 'next pymnt d', 'out prncp', 'out prncp i
            'pymnt plan', 'initial list status', 'member id', 'id',
            'application type', 'grade', 'annual inc joint', 'dti jo
        1
    )
    emp lengths = []
    df1.emp length = emp lengths
    return df1
# Fragment 2
def f2(df):
    # core cleaning code
    import pandas as pd
    # df = pd.read csv('../input/loan.csv', low memory=False)
    df = df.rename(
        columns={
            'loan amnt': 'loan amount',
            'funded amnt': 'funded amount',
            'funded amnt inv': 'investor funds',
            'int rate': 'interest rate',
            'annual inc': 'annual_income'
        }
    )
    group dates = df.groupby(['complete date', 'region'], as index=F
    group dates = group dates.groupby(['issue d', 'region'],
                                       as index=False).sum()
    return group dates
# Fragment 3
def f3(dataset):
    # core cleaning code
    import numpy as np
    import pandas as pd
    # dataset = pd.read csv('../input/loan.csv', low memory=False)
```

```
dataset = dataset.fillna(0)
    dataset['loan status'] = dataset['loan status'].astype(
        'category'
    ).cat.codes
    non numerics = [
        x for x in dataset.columns if (
            not ((dataset[x].dtype == np.float64) or
                 (dataset[x].dtype == np.int8) or
                 (dataset[x].dtype == np.int64))
        )
    1
    df = dataset
    return df
# Fragment 4
def f4(data):
    # core cleaning code
    import numpy as np
    import pandas as pd
    # data = pd.read csv('../input/loan.csv')
    data 1 = pd.DataFrame(data)
    category one data = data 1[(data 1.loan status == 'Fully Paid')]
   category two data = data 1[(data 1.loan status == 'Charged Off')
   new data = np.vstack((category one data, category two data))
   new data = new data[(slice(None, None, None), slice(2, (-30), No
   new data df = pd.DataFrame(new data)
   title = new data df[19]
   title = pd.DataFrame(title)
   title.columns = ['Title']
    return title
```

end_block

	ch fragment snippets do you consider re e appear relevant.	leva	nt to the task? You may leave blank if
	Fragment 0 Fragment 1 Fragment 2		Fragment 3 Fragment 4
	ch snippet do you consider to be most revant)	eleva	ant to the task? (choose None, if none are
0 0	Fragment 0 Fragment 1 Fragment 2	000	Fragment 3 Fragment 4 None
Acc. 0 0 0 0 0 0	ess to these snippets makes completing Strongly agree Agree Somewhat agree Neither agree nor disagree Somewhat disagree Disagree Strongly disagree	the	task easier
O O	Fragment 0 Fragment 1 Fragment 2 ess to these snippets makes completing Strongly agree Agree Somewhat agree Neither agree nor disagree Somewhat disagree Disagree	000	Fragment 3 Fragment 4 None

Thank you for your participation. At the end of the survey, you will be forwarded to Prolific.