import pandas as pd

import numpy as np

u\_cols = ['user\_id', 'age', 'sex', 'occupation', 'zip\_code']

user = pd.read\_csv('user.csv', sep='|', names=u\_cols)

# write your code below

def get\_agegroup(age) -> str:

agegroup = ""

if(age > 65 and age < 111):

agegroup = "Senior"

elif(age > 25 and age < 66):

agegroup = "Adult"

elif(age > 19 and age < 26):

agegroup = "Young-adult"

elif(age > 12 and age < 20):

agegroup = "Teen"

elif(age > 3 and age < 13):

agegroup = "Children"

elif(age > 1 and age < 4):

agegroup = "Toddler"

elif(age > 0 and age < 2):

agegroup = "Infant"

return agegroup

user["agegroup"] = user["age"].apply(get\_agegroup)

user

r\_cols = ['user\_id', 'movie\_id', 'rating', 'unix\_timestamp']

rating = pd.read\_csv('rating.csv', sep='\t', names=r\_cols)

# write your code below

# Q2.1

nf = pd.merge(user, rating)

# Q2.2

nf = new\_df[(new\_df['rating'] > 4) & ((new\_df['agegroup']=='Teen') | (new\_df['agegroup']=='Senior')) ]

movieID = nf['movie\_id'].tolist()

movieID