Sorting Movies

# Build a dictionary containing the specified movie collection

movies\_dict = {

2005: [['Munich', 'Steven Spielberg']],

2006: [['The Prestige', 'Christopher Nolan'], ['The Departed', 'Martin Scorsese']],

2007: [['Into the Wild', 'Sean Penn']],

2008: [['The Dark Knight', 'Christopher Nolan']],

2009: [['Mary and Max', 'Adam Elliot']],

2010: [["The King's Speech", 'Tom Hooper']],

2011: [['The Artist', 'Michel Hazanavicius'], ['The Help', 'Tate Taylor']],

2012: [['Argo', 'Ben Affleck']],

2013: [['12 Years a Slave', 'Steve McQueen']],

2014: [['Birdman', 'Alejandro G. Inarritu']],

2015: [['Spotlight', 'Tom McCarthy']],

2016: [['The BFG', 'Steven Spielberg']]

};

# Prompt the user for a year

user\_year = int(input('Enter a year between 2005 and 2016:\n'))

# Displaying the title(s) and directors(s) from that year

if (user\_year < 2005) or (user\_year > 2016):

print('N/A\n')

elif user\_year == 2005:

print('%s, %s\n' % (movies\_dict[2005][0][0], movies\_dict[2005][0][1]))

elif user\_year == 2006:

print('%s,' % movies\_dict[2006][0][0], movies\_dict[2006][0][1])

print('%s, %s\n' % (movies\_dict[2006][1][0], movies\_dict[2006][1][1]))

elif user\_year == 2007:

print('%s, %s\n' % (movies\_dict[2007][0][0], movies\_dict[2007][0][1]))

elif user\_year == 2008:

print('%s, %s\n' % (movies\_dict[2008][0][0], movies\_dict[2008][0][1]))

elif user\_year == 2009:

print('%s, %s\n' % (movies\_dict[2009][0][0], movies\_dict[2009][0][1]))

elif user\_year == 2010:

print('%s, %s\n' % (movies\_dict[2010][0][0], movies\_dict[2010][0][1]))

elif user\_year == 2011:

print('%s,' % movies\_dict[2011][0][0], movies\_dict[2011][0][1])

print('%s, %s\n' % (movies\_dict[2011][1][0], movies\_dict[2011][1][1]))

elif user\_year == 2012:

print('%s, %s\n' % (movies\_dict[2012][0][0], movies\_dict[2012][0][1]))

elif user\_year == 2013:

print('%s, %s\n' % (movies\_dict[2013][0][0], movies\_dict[2013][0][1]))

elif user\_year == 2014:

print('%s, %s\n' % (movies\_dict[2014][0][0], movies\_dict[2014][0][1]))

elif user\_year == 2015:

print('%s, %s\n' % (movies\_dict[2015][0][0], movies\_dict[2015][0][1]))

else:

print('%s, %s\n' % (movies\_dict[2016][0][0], movies\_dict[2016][0][1]))

# Displays menu and carries out the desired option: Display movies by year, display movies by director, display movies by movie title, or quit

while True:

movie\_menu\_input = input('MENU\nSort by:\ny - Year\nd - Director\nt - Movie title\nq - Quit\n\nChoose an option:\n')

if movie\_menu\_input != 'q':

if movie\_menu\_input == 'y':

for year in sorted(movies\_dict.keys()):

print(year, end = ':\n')

for movie in movies\_dict[year]:

print('\t%s, %s' % (movie[0], movie[1]))

print('')

if movie\_menu\_input == 'd':

directors\_dict = {}

for key in sorted(movies\_dict.keys()):

for movie in movies\_dict[key]:

director = movie[1]

if director in directors\_dict:

directors\_dict[director].append([movie[0],key])

else:

directors\_dict[director] = [[movie[0],key]]

for key in sorted(directors\_dict.keys()):

print(key, end = ':')

print('')

for director in directors\_dict[key]:

print("\t"+ str(director[0])+ ", "+str(director[1]))

print('')

if movie\_menu\_input == 't':

titles\_dict = {}

for key in sorted(movies\_dict.keys()):

for movie in movies\_dict[key]:

title = movie[0]

if title in titles\_dict:

titles\_dict[title].append([movie[1],key])

else:

titles\_dict[title] = [[movie[1],key]]

for key in sorted(titles\_dict.keys()):

print(key, end = ':')

print('')

for title in titles\_dict[key]:

print("\t"+str(title[0])+", "+str(title[1]))

print('')

else:

break