Project 5.28.

This website of HKEX released the information of northbound and southbound shareholding through Shanghai-Hong Kong Stock Connect. Southbound shareholding refers to the investment from H-share investors to A-share market, whereas northbound shareholding refers to the investment from A-share investors to H-share market.

URL:

Southbound shareholding through Shanghai and Shenzhen Connect: <http://www.hkexnews.hk/sdw/search/mutualmarket.aspx?t=hk>

Northbound shareholding through Shenzhen Connect: <http://www.hkexnews.hk/sdw/search/mutualmarket.aspx?t=sz>

Northbound shareholding through Shanghai Connect: <http://www.hkexnews.hk/sdw/search/mutualmarket.aspx?t=sh>

Requirement: submit a code to realize the following function:

1. Open the code and run the code
2. Ask the user which type of shareholding he or she wants to download:
3. Southbound shareholding through Shanghai and Shenzhen Connect: <http://www.hkexnews.hk/sdw/search/mutualmarket.aspx?t=hk>
4. Northbound shareholding through Shenzhen Connect: <http://www.hkexnews.hk/sdw/search/mutualmarket.aspx?t=sz>
5. Northbound shareholding through Shanghai Connect: <http://www.hkexnews.hk/sdw/search/mutualmarket.aspx?t=sh>
6. how much data he or she wants to download:
7. all the data from date 2017/03/17 (the earliest date of data released by HKEX) to one day before the day you run the code (the latest date of data released by HKEX)
8. customized period, specified by the user
9. Return a basket of csv files with filenames by the date of the data from HKEX with the following information:
10. Shareholding in CCASS
11. Shares Percentage
12. Stock Name
13. Stock code

Codes will be graded based on:

1. The format of the codes
2. The organization of the csv file
3. The speed of the codes
4. The extendibility of the codes

Estimated completion time: 70 hours. Time consumption depends on the codes’ quality.

Suggestive points:

Deadline:

Bonus points:

1. Work completion before the deadline will generate an extra 20% bonus.

Penalty:

1. Late delivery/missing deadline will incur -10% of finally determined points of the whole project per missing day.
2. Serious mistakes that made the submitted results not useful will incur -120% of the whole project.