```
/*****************************
1
2
    File name: cal mean.cpp
3
    Description: calculate mean matrix
    *******************************
4
5
6
    #include "cal mean.h"
 7
    void cal mean(double *meanMatrix, double **retMatrix, int numberAssets, int
8
    numberReturns)
9
    {
10
        //calculate the average return
11
        for(int i = 0; i < numberAssets; i++)</pre>
12
13
            double mean = 0;
            for(int j = 0; j < numberReturns; j++)</pre>
14
15
                mean += retMatrix[i][j] / numberReturns;
16
            meanMatrix[i] = mean;
17
        }
18
    }
19
20
    void cal mean(double *meanMatrix, double **retMatrix, int numberAssets, int
    numberReturns, int startDay)
21
22
        //calculate the average return from specific startDay
23
        for(int i = 0; i < numberAssets; i++)</pre>
24
        {
25
            double mean = 0;
26
            for(int j = startDay; j < startDay + numberReturns; j++)</pre>
27
                mean += retMatrix[i][j] / numberReturns;
28
            meanMatrix[i] = mean;
29
        }
30
    }
```

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