CSC340: HW5

Problem: Please analyze the time complexity of the following functions or forloops. For each question, use the following template to figure out the total time needed to finish the corresponding function or for-loop.

Line No.	Time taken to run this line of code once.	Total number of times needed to run this line.
1		
Total time needed to finish this function or loop:		

Submission: Please submit your solution as one PDF file. This PDF will contain three tables in the above format, corresponding to your complexity analysis to the three questions. .

Q1.

```
double sum_skip7 (double array[], int n)
//n: size of the array. Assume n is divisible by 7, i.e., n=7*k, where k is a
    positive integer
{
        double sum=0;
        for (int i=0; i<n; i=i+7)
            sum = sum + array[ i ];
        return sum;
}</pre>
```

```
Q2.
```

```
double sum_exponentials(int n)
//n is a power of 5, i.e., n=5k or k=log<sub>3</sub>n, where k is a positive integer
{
    int sum=0;
    for (int i=1; i<n; i=i*5)
        sum = sum + i;
    return sum;
}

Q3.
for (int i=0; i<n; i++)
    for (int j=i; j<=n; j
        cout << i << "," << j <<endl;</pre>
```