Sample Algorithms

Find the time complexity of the following algorithms and express in Θ (Big Theta) notation.

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1.
    Algorithm1(int n)
          for (i=0; i<n; i+=3)
                 print(i)
2.
    Algorithm2(int n)
          for (i=0; i<n*n; i++)
                 print(i)
    Algorithm3(int n)
3.
          for (i=0; i<n; i++)
                 for(j=0; j<n; j++)
                       print(i+j)
    Algorithm4(int m, int n)
4.
          for (i=0; i<m; i+=2)
                 for(j=0; j<n; j++)
                       print(i+j)
    Algorithm5(int n)
          for (i=1; i<n; i=i*2)
                 print(i)
    Algorithm6(int n)
          for (i=0; i<n; i+=2)
                 for(j=0; j<i; j++)</pre>
                       print(i+j)
    Algorithm7(int m, int n)
7.
          for (i=0; i<m; i++)
                 for(j=1; j<n; j=2*j)
                       print(i+j)
    Algorithm8(int m, int n)
8.
          for (i=0; i<m; i++)
                 print(i)
          for(j=1; j<n; j=2*j)
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print(j)