Non-Recursive Examples: Time Complexity

Q1: P= 0

For(i=1; p<=n; i++)

 P = P + i

Q2: for(i= n; i<=1; i = i\*2)

 Statement

Q3: for(i=n; i>=1; i=i/2)

 Statement

Q4: for(i=0; i\*i<n; i++)

 Statement

Q5: for(i=0; i<n; i++)

 Statement

 For(j=0; j<n; j++)

 Statement

Q6: p = 0

 For(i=1; i<n; I =i\*2)

 P++;

 For(j=1; j<p; j=j\*2)

 Statement

Q7: for(i=0; i<n; i++)

 For(j=1; j<n; j=j\*2)

 Statement

Q8: i=0;

While(i<n)

{

 Statement

 i++

}

Q9: a=1

 While (a<b)

 {

 Statement

 a= a\*2

 }

Q10: i=n;

 While(i>1)

 {

 Statement

 i=i/2

}

Q11: i=1

 k=1

 While (k<n)

 {

 Statement

 k = k + i;

 i++;

 }