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++;

}