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| **S.No** | **Question** | **Complexity** |
|  | int a = 0, b = 0;  for (i = 0; i < N; i++) {  a = a + rand();  }  for (j = 0; j < M; j++) {  b = b + rand();  } | O(n) |
|  | int a = 0;  for (i = 0; i < N; i++) {  for (j = N; j > i; j--) {  a = a + i + j;  }  } | O(n²) |
|  | int i, j, k = 0;  for (i = n / 2; i <= n; i++) {  for (j = 2; j <= n; j = j \* 2) {  k = k + n / 2;  }  } | O(n²) |
|  | int a = 0, i = N;  while (i > 0) {  a += i;  i /= 2;  } | O(log n) |
|  | for (var i=0;i<n;i++)  i\*=k | O(nlogn) |
|  | def fun(n):  if (n < 5):  print("GeeksforGeeks", end ="")  else:  for i in range(n):  print(i, end= " ") | O(n) |
|  | def fun(a, b):  while (a != b):  if (a > b):  a = a - b  else:  b = b - a | O(n) |
|  | void fun (int n) {  for(int i=0; i\*<n; i++)  cout<<"GeeksforGeeks";  } | O(nlogn) |
|  | void fun(int n, int x)  {  for (int i = 1; i < n; i = i \* x) //or for(int i = n; i >=1; i = i / x)  cout << "GeeksforGeeks"; } | O(nlogn) |
|  | void fun(int n)  {  for (int i = 0; i < n / 2; i++)  for (int j = 1; j + n / 2 <= n; j++)  for (int k = 1; k <= n; k = k \* 2)  cout << "GeeksforGeeks";  } | O(n²) + O(nlogn)  = O(nlogn) |
|  | void fun(int n)  {  int i = 1;  while (i < n) {  int j = n;  while (j > 0) {  j = j / 2;  }  i = i \* 2;  }  } | O(nlogn) + O(n²)  = O(nlogn) |