A **student** designed and implemented a data structure to be used in software component. The data structure implemented {List, USet , SSet} interface which supports {**Add**, Remove , Set, Get, Size} operation. The student implemented the {**Add**, Remove, Set, Get, Size } as follows :

//Here c is a constant

for (int i =1 ; I <= c ; i++){

// some O(1) expressions

}

What is the time complexity complexity of the students algorithm?

1. O (1)
2. O (n)
3. O (n^2)
4. O (log n)

A %s is considering designing and implementing generic data structure A&lt;T&gt; for software module

The specification for the data strucure is as follows:

1. Implement %s interface .

2. Supports %s operation

3. Write algorithm for %s

The algorithm implemented is as follows :

for (int i =1 ; i >0 n ; i+=c) {

for(int j=i+1;i<n; j+=c) {

O(1) expressions

}

}