

Stacks-I Assignment Questions



Assignment Questions



Q1. You have two stack and 1,2,3,4,5 values and you have pushed all these values to S1 (in the order 1,2,3,4,5) and then you took 2 elements from top and inserted into S2, then pop 1 element from S1 and then take top of S2 and insert into S1. What is the second top element in S1.

- 1. [3
- 2. [2
- 3. [1
- 4. [5
- Q2. Remove kth element from top in a given stack.

Hint: Use another stack, just like insertion question.

```
Q3. What does this function do?
void fun(int n){
stack<int> s;
while (n > 0){
s.push(n%2);
n = n/2;
}
while (!s.empty()){
cout<<s.top();
s.pop();
}
</pre>
```

- 1. Prints binary representation of n in reverse order
- 2. Prints binary representation of n
- 3. Print the value of Log n
- 4. Print the value of Log n in reverse order
- Q4. Which of the following statement(s) about stack data structure is/are NOT correct?
- 1. Stack data structure can be implemented using linked list
- 2. New node can only be added at the top of the stack
- 3. Stack is the FIFO data structure
- 4. Adding an element to a filled stack leads to underflow condition.

Note:- Please try to invest time doing the assignments which are necessary to build a strong foundation. Do not directly Copy Paste using Google or ChatGPT. Please use your brain.