```
1
    #include<iostream>
 2
    #include<stack>
 3
 4
   using namespace std;
 5
 6
   stack <int> Stack1;
 7
    stack <int> Stack2;
 8
 9
   void enqueue(int k)
10
11
        Stack1.push(k);
12
13
14
    int dequeue()
15
16
        if(Stack2.empty()&&Stack1.empty())
17
18
             cout<<"Underflow";</pre>
19
             return 0;
20
21
22
23
        if(!Stack2.empty())
24
25
             int pop=Stack2.top();
26
             Stack2.pop();
27
             return pop;
28
29
30
        else
31
32
             while(!Stack1.empty())
33
34
                 Stack2.push(Stack1.top());
35
                 Stack1.pop();
36
37
             int pop=Stack2.top();
38
             Stack2.pop();
39
             return pop;
40
41
42
43
    int main()
44
45
46
47
        enqueue(1);
48
        enqueue(2);
49
        enqueue(3);
50
        cout<<"top of stack 1 is"<<Stack1.top();</pre>
51
        cout<<"\nsize of stack 1 is"<<Stack1.size();</pre>
52
        dequeue();
53
        dequeue();
54
        enqueue(20);
55
        enqueue(30);
56
        dequeue();
57
        dequeue();
58
        dequeue();
59
        dequeue(); // underflow condition reached//
60
61
62
63
64
65
```