

// Online C++ compiler to run C++ program online

```
#include <iostream>
```

```
using namespace std;
```

```
class Stack{
```

```
public:
```

```
int arr[100];
```

```
const int n=100;
```

```
int top;
```

```
Stack(){
```

```
    top=-1;
```

```
}
```

```
bool isEmpty(){
```

```
    return(top== -1);
```

```
}
```

```
bool isFull(){
```

```
    return(top==n-1);
```

```
}
```

```
void push(int data){
```

```
    if(isFull()){
```

```
        cout<<"stack is full"<<endl;
```

```
        return;
```

```
    }else{
```

```
        top++;
```

```
        arr[top]=data;
```

```
    }
```

```
    cout<<data<<"added on the stack"<<endl;
```

```
}
```

```
}
```

```
void pop(){
```

```
    if(isEmpty()){
```

```
        cout<<"stack is empty"<<endl;
```

```
}
```

```

        return;
    }else{
        cout<<"deleted"<<arr[top]<<endl;
        top--;
    }
}

```

```

int peek(){
    if(isEmpty()){
        cout<<"stack is empty"<<endl;
        return -1;
    }
    return arr[top];
}

```

```
};
```

```

int main() {
    Stack S,S1;
    S.push(12);
    S.push(13);
    S.push(14);
    S.push(15);
    S.push(16);
    S.push(17);
    S.push(18);
    cout<<"peek"<<S.peek()<<endl;
    S.pop();
    cout<<"peek"<<S.peek()<<endl;
}

```

```

    return 0;
}

```

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