```cpp
#include <iostream>
using namespace std;

class Stack
{
	int *p;
	int size;
	int top;

public:
	Stack(int size)
	{
		this->size = size;
		top = -1;
		p = new int[size];

	}
	void push(int value)
	{
		if (top == size - 1)
		{
			cout<< "stack overflow"<<endl;
			cout << top << endl;
		}
		p[++top] = value;
		cout << p[++top]<<"     "<<value << endl;
	}

	int pop()
	{
		if (top = -1)
		{
			cout<<"stack underflow"<<endl;
		}
		return p[top--];
	}
};
int main()
{
	Stack s1(10);
	s1.push(10);
	int i=0;
	for (i = 0; i < 10; i++)
	{
		cout << i << endl;
		s1.push(i);
	}
	for (i = 0; i < 10; i++)
	{
		cout<<s1.pop() << endl;
	}
	int num;
	cin >> num;
}
```


0
1
2
3
4
5
6
7
8
9
9
8
7
6
5
4
3
2
1
0