

```

public class Stack
{
    static final int MAX = 1000;
    int top;
    int a[] = new int[MAX];
    boolean isEmpty()
    {
        return (top < 0);
    }
    Stack()
    {
        top = -1;
    }
    boolean push(int x)
    {
        if (top >= (MAX-1))
        {
            System.out.println("Stack Overflow");
            return false;
        }
        else
        {
            a[++top] = x;
            System.out.println(x + " pushed into stack");
            return true;
        }
    }
    int pop()
    {
        if (top < 0)
        {
            System.out.println("Stack Underflow");
            return 0;
        }
        else
        {
            int x = a[top--];
            return x;
        }
    }

    public static void main(String args[])
    {
        Stack s = new Stack();
        s.push(10);
        s.push(20);
        s.push(30);
        System.out.println(s.pop() + " Popped from stack");
    }
}

```

1 <terminated> Stack [Java Application] C:\Program Files\Java\jdk-15.0.1\bin\javaw.exe (May 16, 2023, 8:

```
1 10 pushed into stack
```

```
1 20 pushed into stack
```

```
1 30 pushed into stack
```

```
1 30 Popped from stack
```

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