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package datastructure;

class StackArray {
    static final int MAX = 100;
    int top;
    int a[] = new int[MAX];

    StackArray() {
        top = -1;
    }

    boolean isEmpty() {
        return (top < 0);
    }

    boolean push(int element) {
        if (top >= (MAX - 1)) {
            System.out.println("Stack Overflow");
            return false;
        } else {
            a[++top] = element;
            System.out.println(element + " pushed into stack");
            return true;
        }
    }

    int pop() {
        if (top < 0) {
            System.out.println("Stack Underflow");
            return 0;
        } else {
            int x = a[top--];
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            return x;
        }
    }

    public void printStackElements() {
        System.out.print("Elements are in Stack ::: ");
        for (int i = 0; i <= top; i++) {
            System.out.print(a[i]);
        }
        System.out.println();
    }

    public static void main(String[] args) {
        StackArray s = new StackArray();
        s.push(1);
        s.push(2);
        s.push(3);
        s.printStackElements();
        System.out.println(s.pop() + " Removed from stack");
        s.printStackElements();
    }
}
```