```
class Pilha {
private final int MAXIMO = 1000;
private int topo;
private char armazem[] = new char[MAXIMO]; // Maximum size of Stack
public boolean isEmpty() {
    return (topo < 0);
Pilha() {
    topo = -1;
public boolean push(char x) {
    if (topo >= (MAXIMO - 1)) {
        System.out.println("Stack Overflow");
        return false;
    else {
        armazem[++topo] = x;
        System.out.println(x + " foi empilhado na Pilha.");
        return true;
public char pop()
    if (topo < 0) {
        System.out.println("Stack Underflow");
        return 0;
    else {
        char x = armazem[topo--];
        return x;
public char peek() {
    if (topo < 0) {
        System.out.println("Stack Underflow");
        return 0;
    else {
        char x = armazem[topo];
        return x;
```