```java
/**
 * COSC311 - Program 3 (threaded)
 *
 * This file describes a stack data type used to store the location of deleted
 *   student records so those spaces can be filled by new student additions.
 *
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 *
 */
public class DBStack {

    private int[] stack;
    private int pointer, size;

    public DBStack(int x) {
        pointer = 0;
        size = x;
        stack = new int[size];
    }

    public boolean isFull() {
        return (pointer == size);
    }

    public boolean isEmpty() {
        return (pointer == 0);
    }

    public void push(int x) {
        stack[pointer++] = x;
    }

    public int pop() {
        return stack[--pointer];
    }
}
```