```cpp
#include <iostream>
#include <string>

class Stack {
private:
  int *_list;
  int _length;
  int _maxSize;
  std::string _name;

public:
  Stack(int maxSize, std::string name) {
    _list = new int[maxSize];
    for(int i = 0; i < maxSize; i++)
      _list[i] = 0;
    _maxSize = maxSize;
    _length = 0;
    _name = name;
  }

  ~Stack() { delete[] _list; }

  int length() { return _length; }

  int maxSize() { return _maxSize; }

  std::string getName() { return _name; }

  bool isEmpty() { return _length == 0; }

  bool isFull() { return _length == _maxSize; }

  int top() {
    if(!isEmpty())
      return _list[_length-1];
    else
      return -1;
  }

  void push(int value) {
    if(!isFull())
      _list[_length++] = value;
  }

  int pop() {
    int value;
    if(_length > 0) {
      value = _list[_length-1];
      _list[--_length] = 0;
    } else
      value = 0;
    return value;
  }
};

```