

SAMPLE DEFINITION OF FUNCTION POP()

```

void numStack::pop(int &num)
{
    if (isEmpty())
    {
        cout << "The stack is empty.\n";
    }
    else
    {
        num = stackArray[top];
        top--;
    }
}

```

SAMPLE DEFINITION OF FUNCTION ISFULL()

```

bool numStack::isFull(void)
{
    bool status;

    if (top == stackSize - 1)
        status = true;
    else
        status = false;

    return status;
}

```

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**SAMPLE DEFINITION OF FUNCTION
ISEMPTY()**

```

bool numStack::isEmpty(void)
{
    bool status;

    if (top == -1)
        status = true;
    else
        status = false;

    return status;
}

```

SAMPLE PROGRAM USING OUR STACK DEFINITION

```

// This program demonstrates the use of our numStack
class.
#include <iostream.h>
#include "numstack.h"

void main(void)
{
    numStack stack(5);
    int catchVar;

    cout << "Pushing 5\n";
    stack.push(5);
    cout << "Pushing 10\n";
    stack.push(10);
    cout << "Pushing 15\n";
    stack.push(15);
    cout << "Pushing 20\n";
}

```