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```cpp
#include <iostream>

using namespace std;

class Stack{

    private:

    int* pills;

    int capacity;

    int n;


    public:Stack(int cap = 20){

        capacity = cap;

        n= -1;

        pills = new int[capacity];

    }


    Stack operator<<(int p) {

        if (n < capacity - 1) {

            n++;

            pills[n] = p;

        } else {

            throw overflow_error("La pile est pleine");

        }

        return *this;

    }


    int operator>>(int n) {
```

```
    if (this->n < 0) {

        return n;

    } else {

        this->n = n--;

        n = pills[this->n];

        return n;

    }

}


bool operator++() {

    if (n == capacity - 1) {

        return true;

    } else {

        return false;

    }

}


bool operator--() {

    if (n == -1) {

        return 1;

    } else {

        return 0;

    }

}
```

```
};

int main() {


  Stack p(5);

  try {

      p << 10 << 20 << 30;

      int n1, n2, n3;

      p >> n1 >> n2 >> n3;



  } catch (exception& e) {

    cout << "erreur: " << e.what() << endl;

  }



  return 0;

}
```