## Klasa kao realizacija strukture podataka

\* Želimo da realizujemo određenu strukturu podataka, npr. stek kakav smo već skicirali, sa elementima tipa unsigned int i kapaciteta MaxStackSize:

```
// File: stack.h
 const int MaxStackSize = 256;
 class Stack {
                                Konstanta tipa int, ne može se
 public:
   Stack ();
   int push (unsigned in);
   int pop (unsigned* out);
 private:
   unsigned stack[MaxStackSize]; // Stack
   int sp; // Stack pointer
 // File stack.cpp
 #include "stack.h"
 Stack::Stack () {
   this->sp = 0;
 int Stack::push (unsigned in) {
   if (this->sp==MaxStackSize) return -1;
   this->stack[this->sp++] = in;
   return 0;
 int Stack::pop (unsigned* out) {
   if (this->sp==0) return -1;
   *out = this->stack[--this->sp];
   return 0:
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```

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```
* Šta ako nam treba stek koji će skladištiti elemente nekog drugog tipa T i/ili drugog kapaciteta?
 // File: stack.h
 const int MaxStackSize = 512;
 class Stack {
 public:
   Stack ();
   int push (\underline{T} in);
   int pop (\underline{T}^* out);
 private:
   T stack[MaxStackSize]; // Stack
   int sp; // Stack pointer
 };
 // File stack.cpp
 #include "stack.h"
 Stack::Stack () {
   this->sp = 0;
 int Stack::push (<u>T</u> in) {
   if (this->sp==MaxStackSize) return -1;
   this->stack[this->sp++] = in;
   return 0;
 int Stack::pop (T* out) {
   if (this->sp==0) return -1;
   *out = this->stack[--this->sp];
   return 0:
Septembar 2024.
```