

CS180 - Vectors

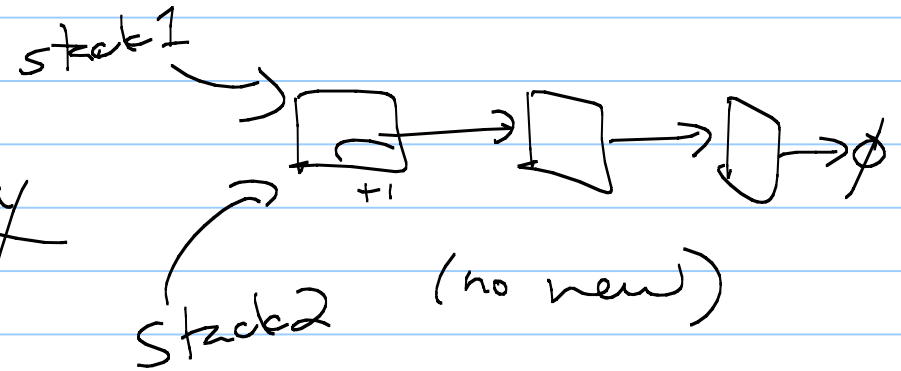
Note Title

10/17/2011

Announcements

- Checkpoint today

- Midterms back on Wed.



Today: - Extend program due date by 24 hours - due tomorrow by midnight

- Handed back midterms
- No lab tomorrow

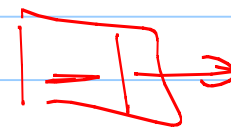
Bugs (from previous code)

Templating and .h/.cpp files

Errors: With templating, easier to have only 1 file, (.h)

If want 2 files
in .h, include/import the functions
at the end.

-SNode was an internal class
variables _elem, -next
were private



Smart Stack

Seg fault - find which line
cout << "here1" << endl;

Reason: $\text{tp} \rightarrow \text{refcount} ++$
 $== 0$

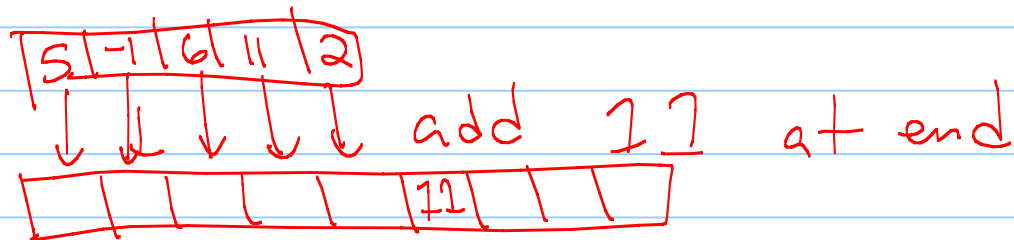
↑
if NULL, this is a seg fault

Vectors - Ch 6.1

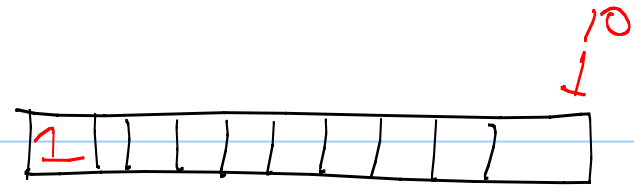
Similar to lists in python

myvector [5] = 6;

Extendable: When the vector gets full,
double the size



Code:



private data:

```
Object * _data; // pointer to my array  
int _cap; // max possible size  
int _size; // current # of objects in array
```

Functions:
(see STL)

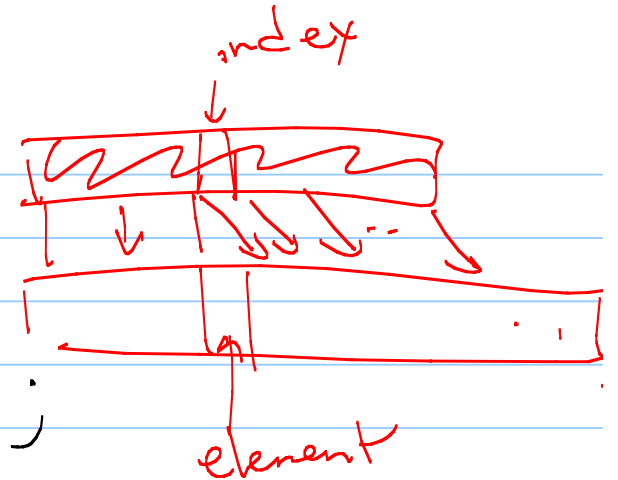
```
Constructor  
Destructor
```

Insert

myvec. insert (2, 'c');

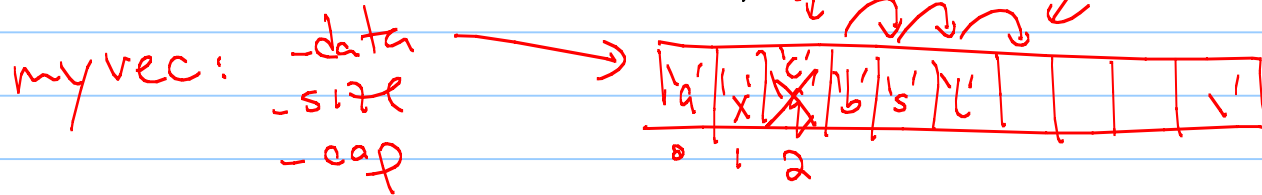
othervec. insert (11, "new");

anothervec. insert (7, -25);



How to insert?

→ (What if full?)



for loop [-data[-size] = -data[-size-1]
-data[-size-1] = -data[-size-2]

Erase

- take an index & delete that element

Ex: myVec.erase(3)

