Week1 Day 1&2

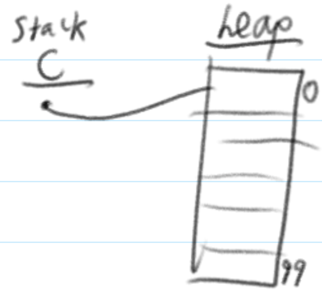
31 Participants

Sunday, August 20, 2023 12:37 PM

This course covers object-oriented programming techniques to design and develop large-scaled software solutions. Topics include design patterns, UML modeling, unit testing, encapsulation, polymorphism, persistence, and inheritance. Extensive programming is required.

int[ ] c = new int[100]

int x=50;   x: 50



Class Rules

No global variables

No breaks out of a loop

Name on top + assignment name

While(n<1 || n>10 || n!=-1)   T

(-1: T F F)

While((n<1 || n>10) && n!=-1)

-1: T F F

T && F

F

Class assignments will assume correct input type

Non exhaustive Sequential Search Pattern

```
I = 0;
Found = false;
While (I < stuff.length && !found) {
    If (stuff.charAt(i) == 'p') {
        Found = true;
    }
    I = I + 1;
}
```

Used to search if letter 'p' appears in a string of text.

Stuff (6)	i	found
peanut	~~0~~	~~false~~
012345	1	true

Output: The letter p was found

Stuff (3)	i	found
ate	~~0~~	false
012	~~1~~	false
	2	

Output: The letter p was not found

Exhaustive Sequential Search Pattern

}

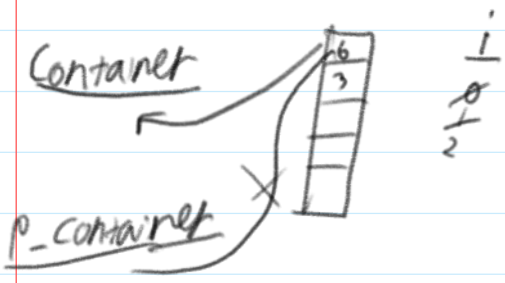
state	i	found
0 1 2	0	false
	1	false
	2	false
	3	

output: The letter p was not found

Exhaustive Sequential Search Pattern

```
Ctr = 0;
For (int I = 0; I < stuff.length(); ++i) {
      If (stuff.charAt(i) == 'p') {
            Ctr = ctr + 1;
      }
}
System.out.println(ctr);
```

Same as non-exhaustive, but searches entire string.



i
0
1
2