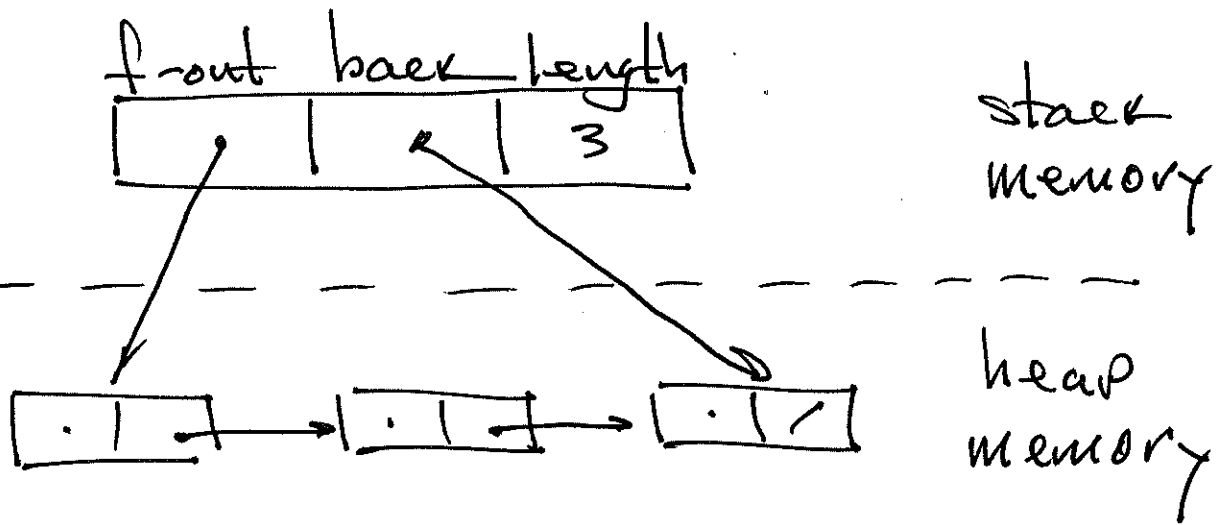


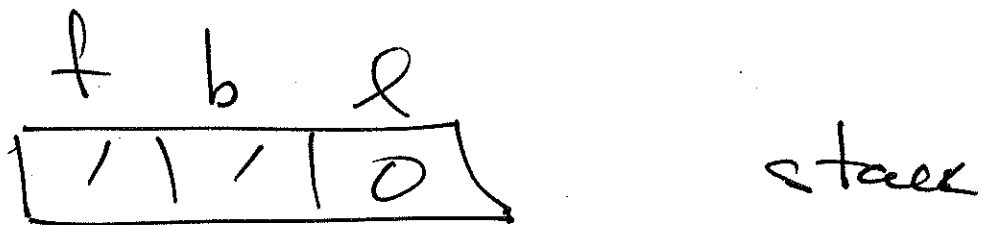
• Pay ext. 1 last day

Handout on ADTs in C++

Ex Queue in C++



Queue Q; // implicitly calls  
 // Queue constructor  
 // Queue in empty state



heap

Reference Variables in C++

4 in C++ and C

- bitwise and (C/C++)
  - address-of (C/C++)
  - reference operator (C++ only)
- operator on a type on its left  
typed

giving corresponding reference type.

A reference variable is an alias for some other variable

EX.

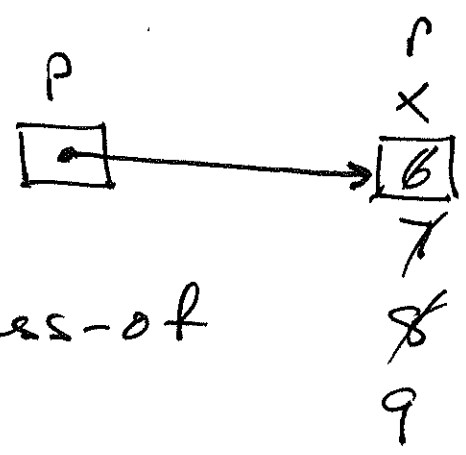
```

int x;
int * p = &x;
int &r = x;

```

↑ address-of

↑ reference



```
x = 6;  
(*p)++;  
x++;  
v++;
```

Ex.

```
type fn (type x) {  
  :  
  }  
}
```

↑  
reference to fn argument,  
not a copy of fn argument.