① origin
② color

Fruit

Type

Mango

cb.lk/ide

fruit

color	origin
int	int

① ~~void~~ void ~~get~~Set Color (Fruit f, int color) {

}

② int getcolor (Fruit f) {

}

heap

2 + 3

−2

new int j

x2	x3	x4	x5

✓

4 bytes
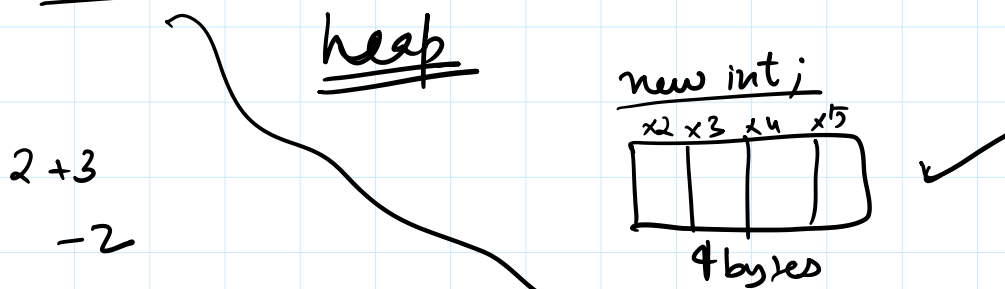
int* foo (   ) {
  int* x = new int ;
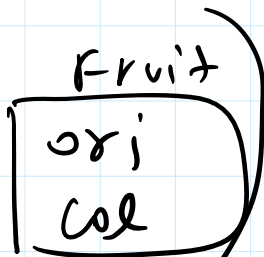 return (x) ;
}

main () {
  int* y = foo () ;
}

y = ⌊ x 2 ⌋

main

C++
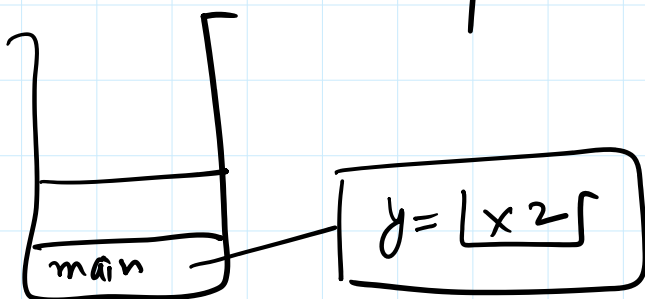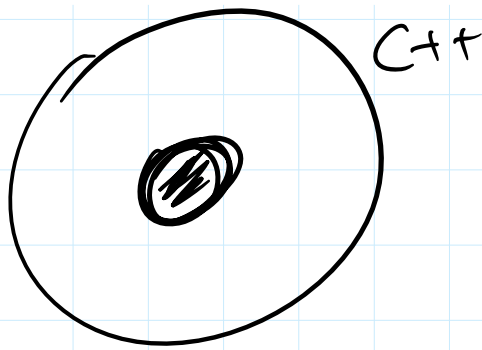
VicePrincipal

Protected:
int no of students

Fruit

| ori |
| col |

man
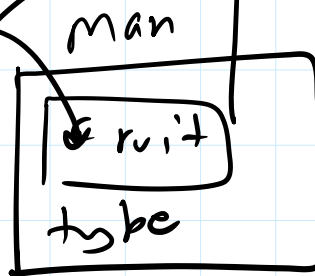
| Fruit |
| type |

Principal
int donations:

mango

Flying

Dev

```
Car c = new car ();
foo ( Car c){
    c.move;
}
```
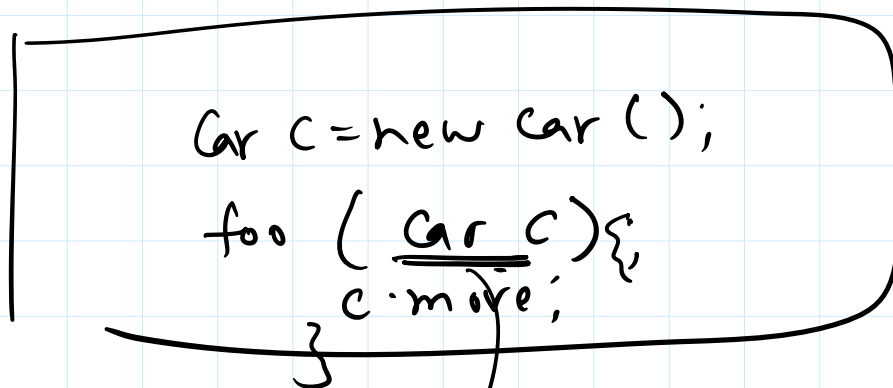
Car c =< new fly Car
         new Normal Car

new

fruit f = new Mango ();

f . get type;

| a | b | c | d | e | |

. contiguous
Static

↑   ↑

1   2   -1   3   4   . Big O ←

——————————————————————————
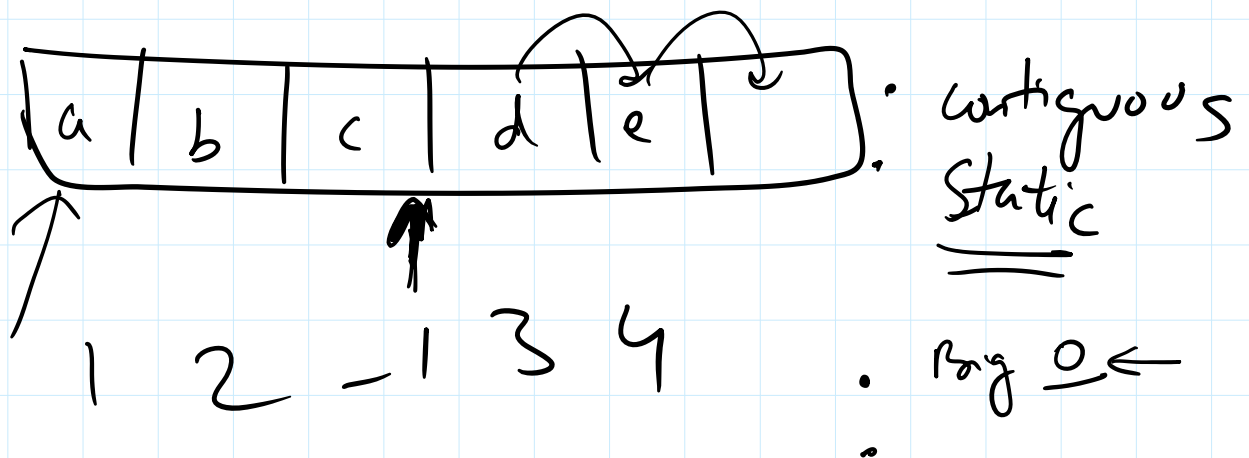
① Search a no in array

① Execution time — code X → time
② Resources ——— space

| arr |

100   100
10^4 10^4
10^6 10^6
10^8 10^8

$T(N) \propto N$

$T(N) \propto K$
$T(N) \propto N$

N	T(N)
10^2	10

$$10^4 \qquad 10^2$$
$$10^8 \qquad 10^4$$
$$10^{16} \qquad 10^8$$

Cb.lk/feedback