ARRAYS

int   m1 = 10;
int   m2 = 20;
int   m3 = 40;   ①
int   m4 = 15;
int   m5 = 25;
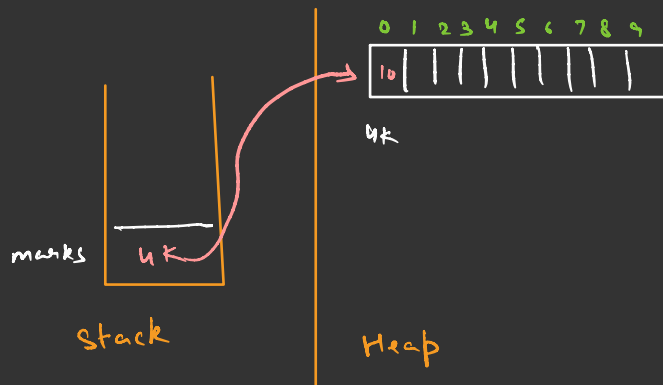
DRY] ②

Don't Repeat Yourself

ARRAYS

int   marks [ ];   // Declaration

   marks = new int[10];   // Initialisation

int marks [] = new int [10];


```
              0 1 2 3 4 5 6 7 8 9
              | | | | | | | | | | |
              10|
              4k
```

marks   4k
stack

Heap

marks [0] = 10;

Syso (marks [0])   // 10

```
for(int i=0; i < marks.length; i++)
    syso(marks[i]);
```

Dynamic initialisation

```
int arr[] = { 1, 2, 3, 4, 5, 10}
```

Cons

static memory ⟶ memory wastage

⟶ you can't expend the size

Dynamic Aarray

Java - Array List

C++ - Vector

Python - List

0	1	0	2	1	0	1	3	2	1	2	1

LB

0	1	2	3	4	5	6	7	8	9	10	11
0	0	1	1	2	2	2	2	3	3	3	3

RB

3	3	3	3	3	3	3	2	2	2	1	0