

String [] args

list

$$\text{int } x_0 = 1$$

$$\text{int } x_1 = 3$$

$$\text{int } x_2 = 5$$

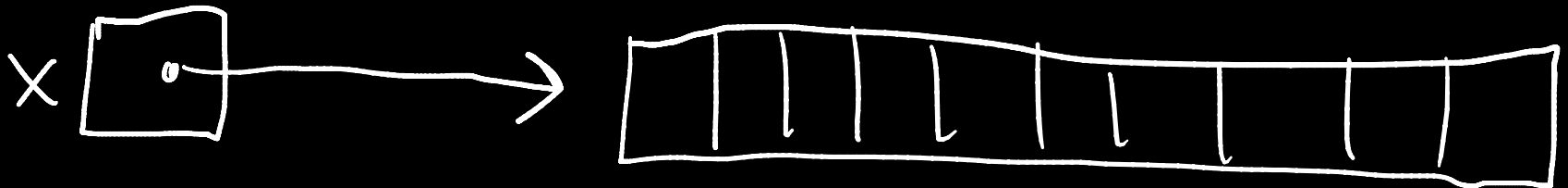
⋮

$$x_0 + x_1 + x_2 + \dots$$

array  $\leftarrow$  a typed list

`int[] x`  $\leftarrow$  x is an array of ints  
 $\uparrow$   
any type

`x = new int[10]`

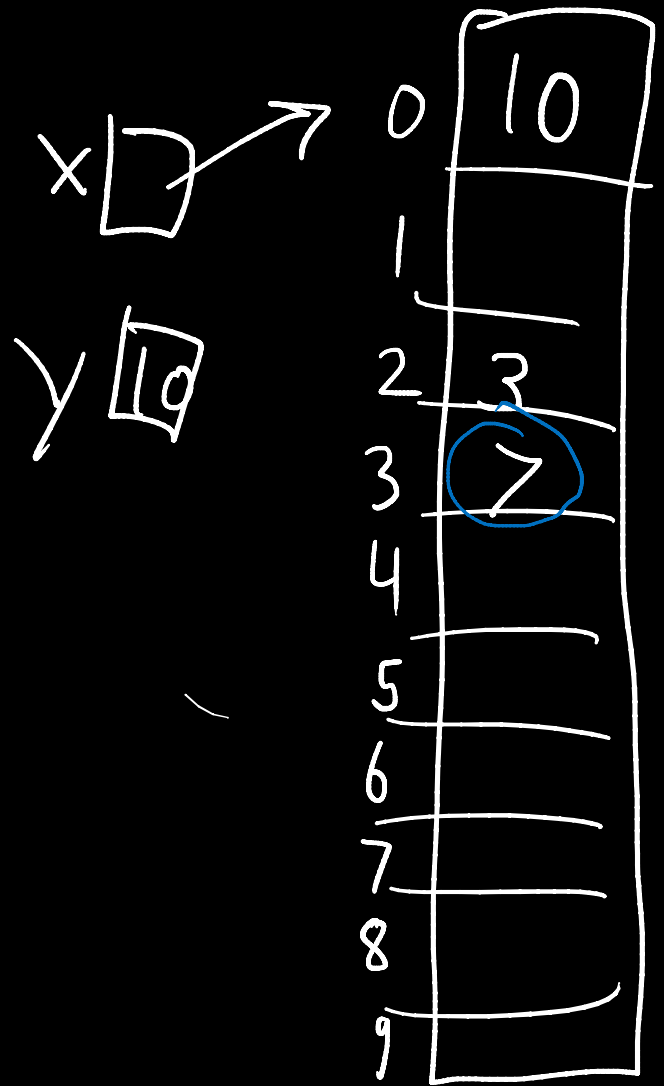
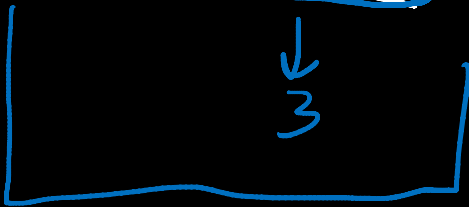


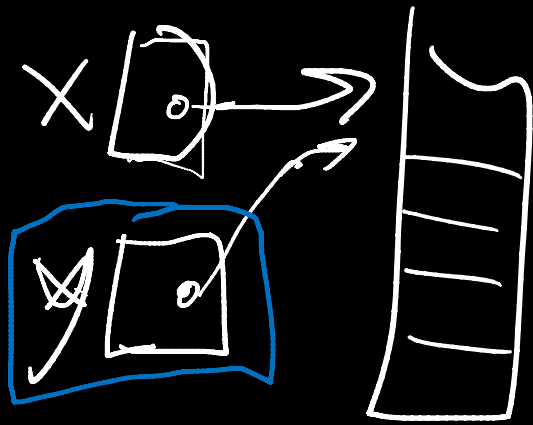
$$x[0] = 10$$


$$\text{int } y = x[0]$$

$$x[2] = 3$$

$$x[x[2]] = 7$$





`z[5]`  
`s` 

`int[] x = new int[5]`  
`int[] y = x`

`int z = x.length`

Create, fills with `0`, false, null

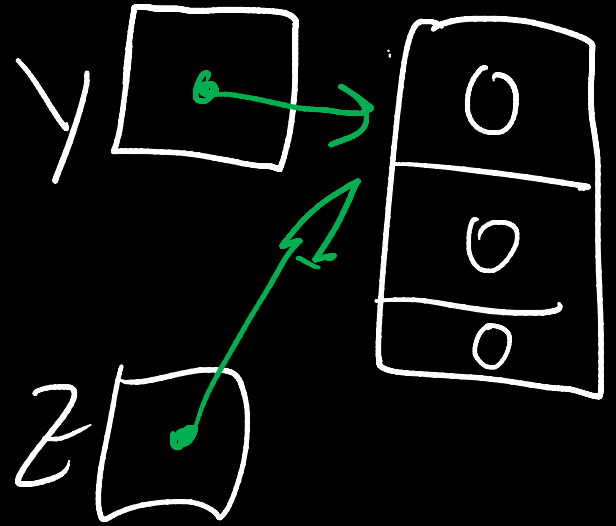
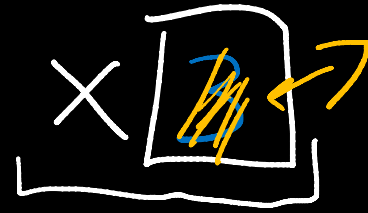
`String s = null`

int x = 3

x = 7

int [] y = new int [3]

int [] z = y

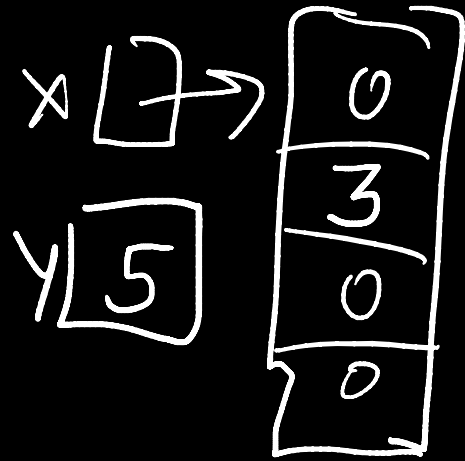


int[] x = new int[4]

int y = 3

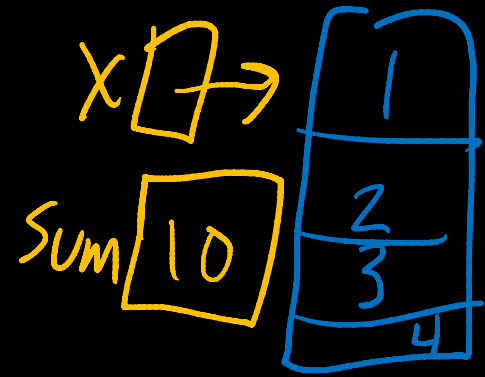
x[1] = y

y = 5



Scanner s = new Scanner(System.in);

```
int[] x = .....  
int sum = 0;  
for (int i = 0; i < x.length; ++i) {  
    int value = x[i];  
    sum += value;  
}  
System.out.println(sum);
```



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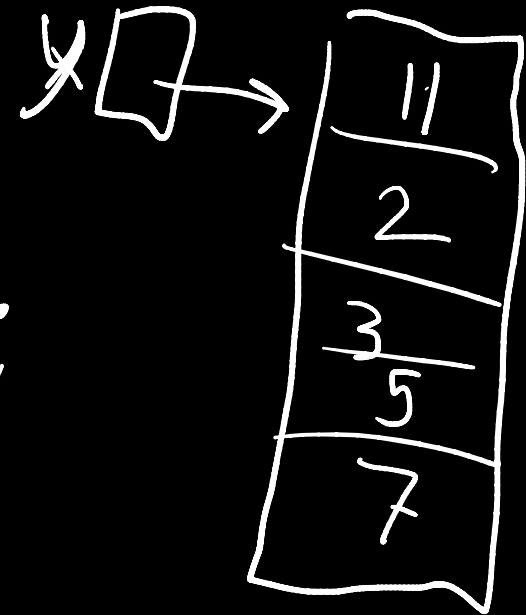
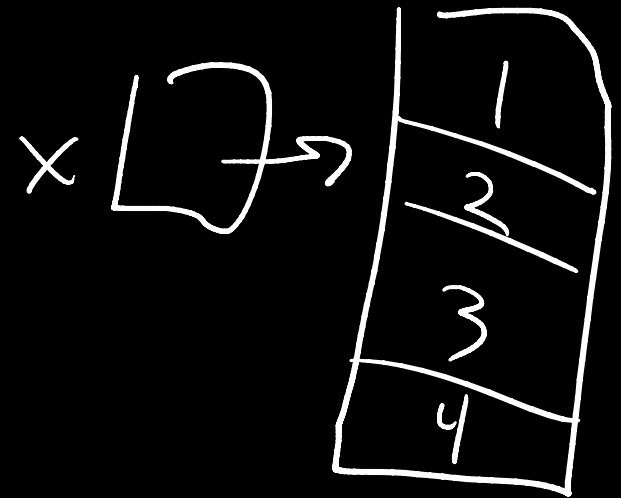
int[] x = new int (4);

x[0] = 1;

x[1] = 2;

x[2] = 3;

x[3] = 4;



int[] y = { 1, 2, <sup>x[2]</sup> ↓, 5, 7 };

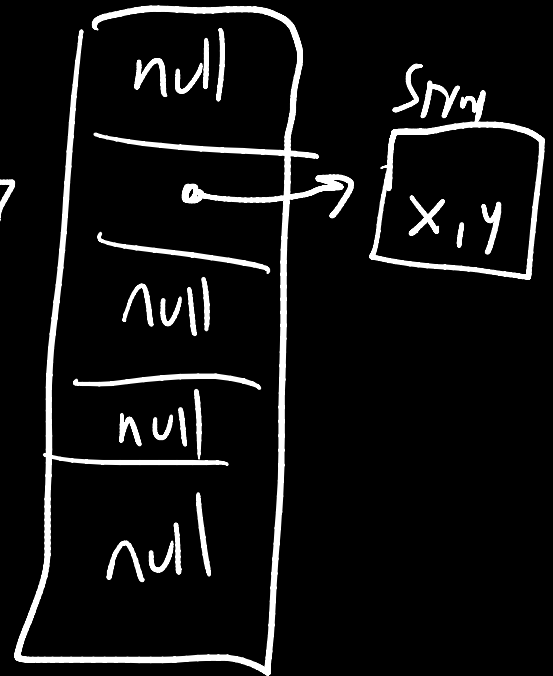
y[0] = 11

[I@37AF203

String [] args = new String [5];

args [1] = "x,y";

args []



String [] s = { "a", "b,c" };

