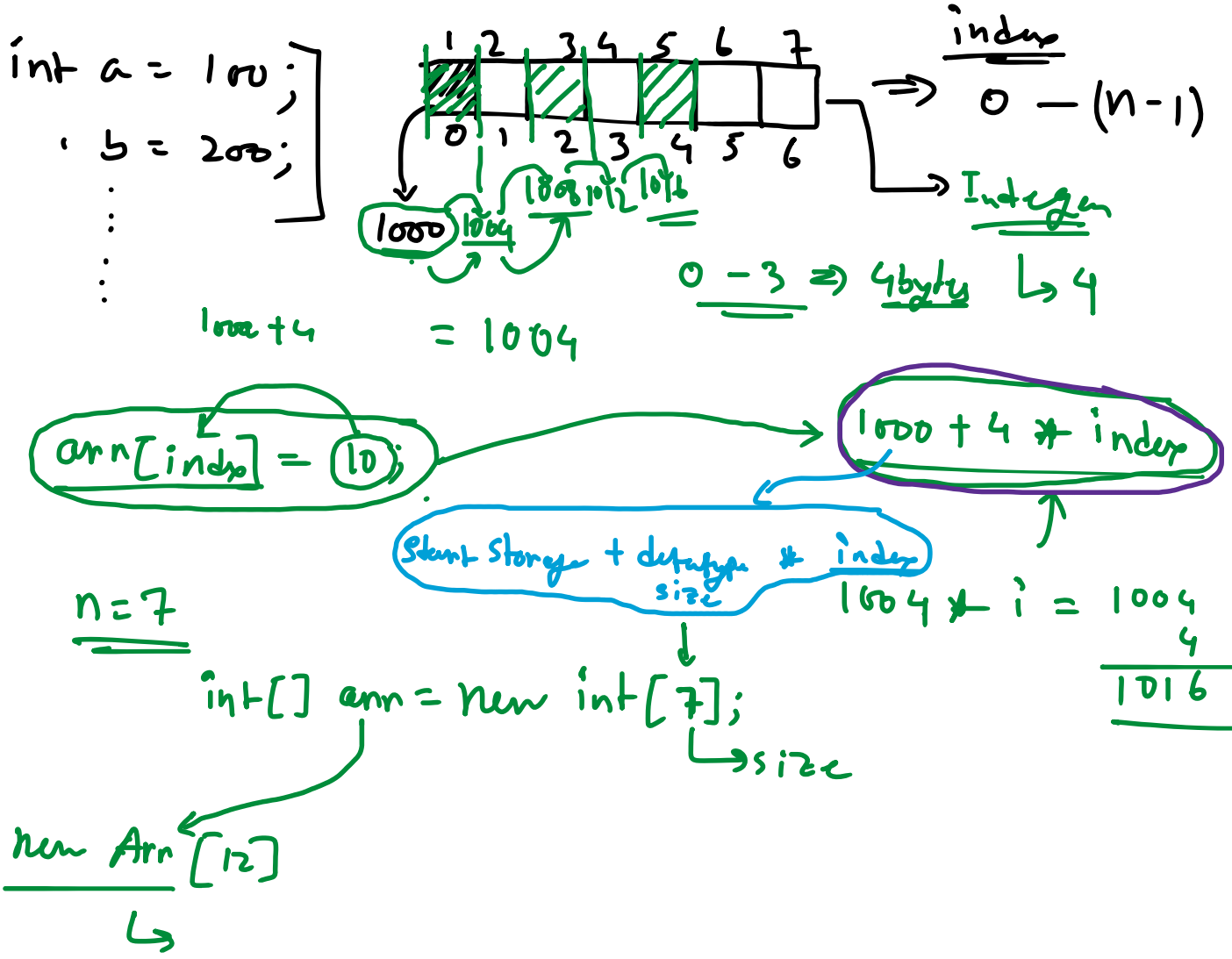
Array



✓ `int[] arr = new int[10];`

✓ `int arr[] = new int[10];`

✗ `int arr = new int[10];`

`int[] arr = {10, 20, 30, 40}`

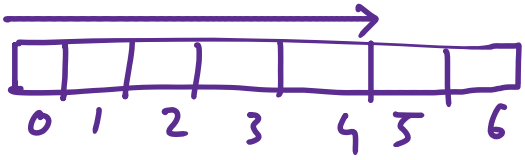
`int arr[] = {10, 20, 30, 40}`

```
int[] arr = new int[] { 10, 20, 30, 40 };
```

Advantage

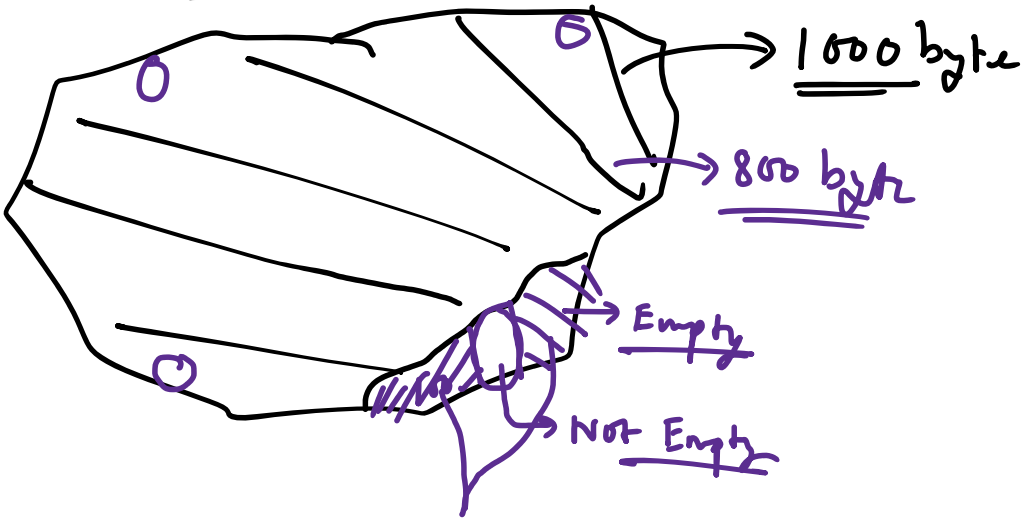
O(1)

int result = arr[index];



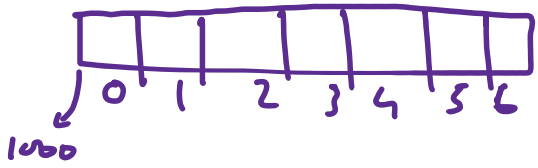
Contains duplicate

dis Advantage



200/4

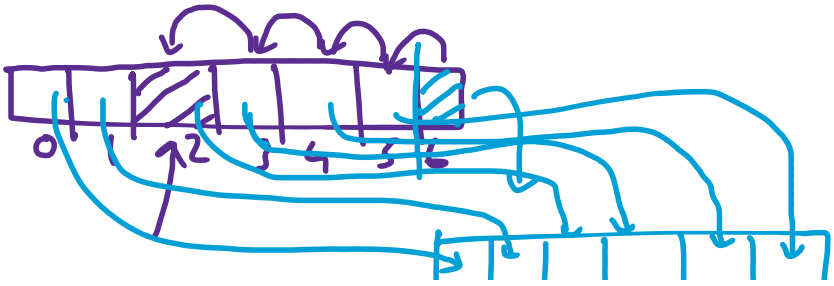
50

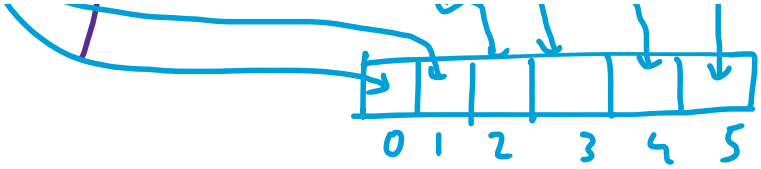


1000 + 28 = 1028

n = 7

7 x 4 = 28






```
    public static void main(String[] args) {

        int[] arr = new int[10];

        Scanner sc = new Scanner(System.in);

        for(int i=0; i<10; i++) {
            System.out.println("Enter any " + (i) + " index values : ");
            arr[i] = sc.nextInt();
        }

        int sum = 0;
        for(int i=0; i<10; i++) {
            sum += arr[i];
        }

        System.out.println(sum);

        boolean[] find = new boolean[10];
        char[] ch = new char[10];
        int[] arr = new int[10];

//      Boolean, Character, Integer, Float, Double, Byte,
        Integer[] arr = new Integer[10];
        int[] arr2 = new int[10];

        boolean found1 = arr[0].equals(arr[1]);
        boolean found2 = arr[0] == arr[1];

        boolean find = arr2[0] == arr2[1];



    }
```