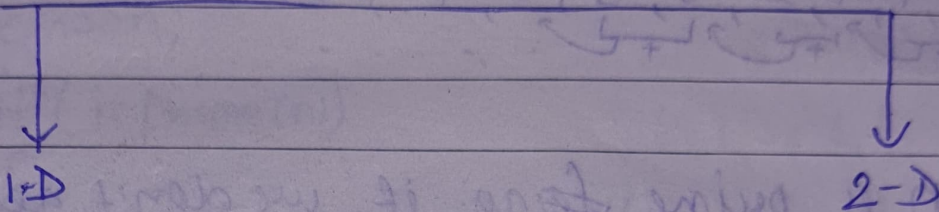
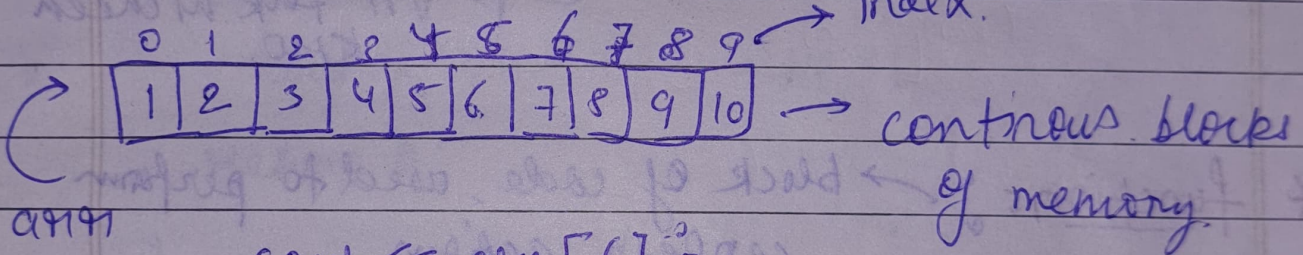


* Arrays

Arrays



```
int arr[10];
```



```
cout << arr[6];
```

Output (- 5,

Ex. int main()

{

```
int arr[10];
```

```
for(int i=0; i<=5; i++)
```

```
{ cin >> arr[i];
```

```
}
```

```
for(int i=0; i<5; i++)
```

```
{ cin >> arr[i];
```

```
}
```

```
return 0;
```


* Fibonacci series } → seen in nature everywhere named on a scientist.

0, 1, 1, 2, 3, 5, 8, 13, 21, ...

* It is prime ~~for~~ no. if we don't get any factor $\leq \sqrt{n}$, } check hi karna hi to \sqrt{n} tak hi check kro.

* functions → block of code, used to perform certain actions.
Return data type

bool → Just like int, char, float

"ya toh true return karega"

#include <iostream> ya false".

using namespace std;

bool isPrime (int n)

{ if (n == 2)

return true;

for (int i = 2; i * i <= n; i++)

{ if (n % i == 0)

return false;

return true;

}


```

int main ()
{
    int no;
    cout << "Enter Number to be checked:";
    cin >> n;
    if (isPrime(n))
    {
        cout << "is a prime No";
    }
    else
        cout << "Not a prime No";
    return 0;
}

```

Call by reference → call karke wagt normal
 hi create h bs
 definition mein
 'x' lago diyo.

```

#include <iostream>
using namespace std;

```

```

int main

```

```

void change (int &n)

```

```

{

```

```

    n = n * n;

```

```

    cout << "Value in func" << n << endl;

```

```

}

```

address change
 'n' ka.

Array

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Date :

① initialization

`int a[1] = {0};` \longrightarrow

0	0	0	0	0
---	---	---	---	---

`int a[10] = {5};` \longrightarrow

5	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---

`int a[10] = {1, 2, 3};` \longrightarrow

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

② Size of array

int \rightarrow 4 bytes

so sizeof \rightarrow size of array
by function

$$\frac{\text{sizeof}(a)}{\text{sizeof}(\text{int})}$$

or smallest

③ to find largest, b/w two no.

`largest = max(largest, a[i])`

`smallest = min(smallest, a[i])`

\rightarrow used in place of
if else

`int largest = INT_MAX;`
`int smallest = INT_MIN;`

but before this
we have to include
`#include <limits>`