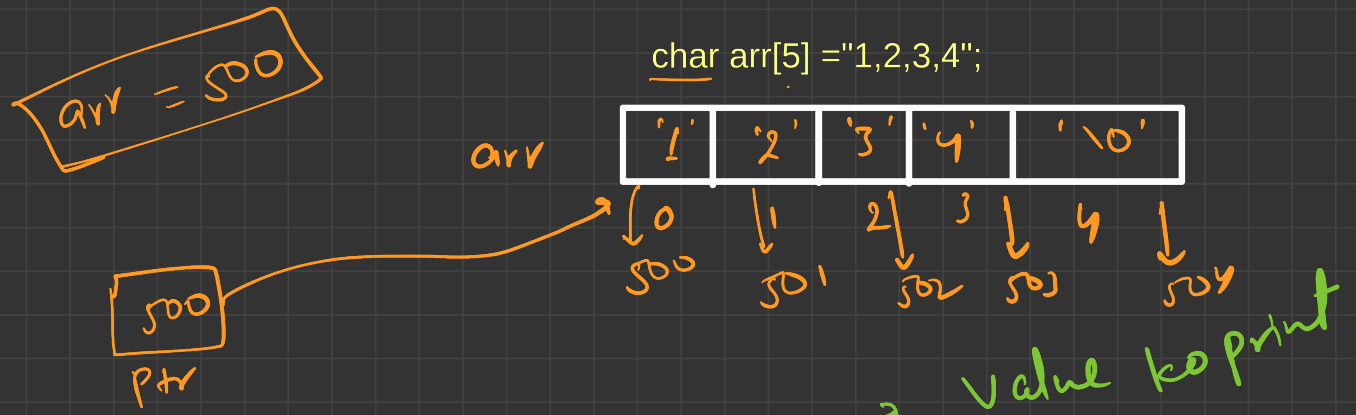
Pointer with char array

char arr[5] ="1,2,3,4";



char *ptr = arr

cout << arr; → 500

Cout <<ptr; → 500

Value ko print

1,2,3,4

1234

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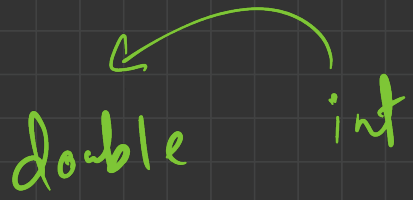
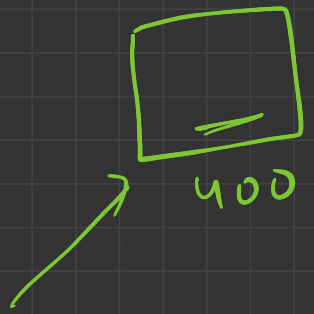
```
cout << (void *) arr;
cout << (void*) ptr;
```

?





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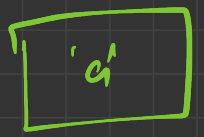
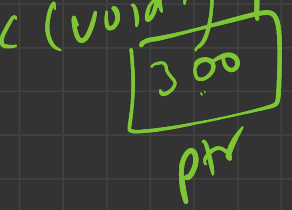
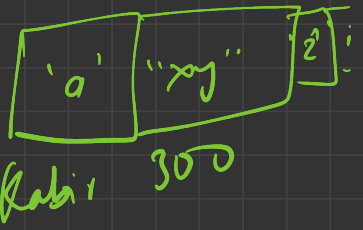
```
char kabir = 'a';
cout << kabir;

char *ptr = &kabir;
cout << ptr;
cout << (void*) ptr;
```





a xyz ab [1 2]



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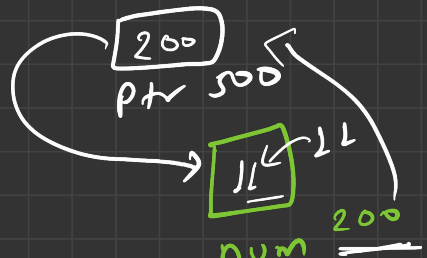
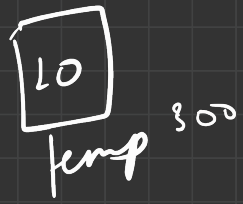
```
void inc(int *ptr)
{
*ptr = *ptr + 1;
}
```



Pass by pointer

```
int a = 5;
int *p = &a;
*p = *p + 1;
```

```
int main() {
  int num = 10;
  int temp = num;
  inc(&num);
  cout<<num;
}
```



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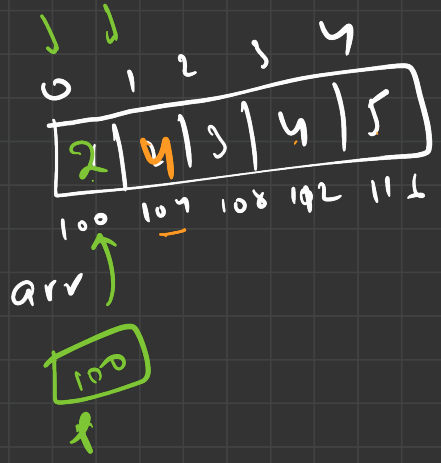
```
void dob (int *p) {
    for (i=0; i<5; i++){
        p[i] = 2* p[i];
    }
```



p[i] = 2 * p[i]

p[i] = 2 * *(p+1)

p[i] = 2 * *104

*(p+1) = 2 * 2

*104 = 4

```
int main() {
    int arr[5] = {1,2,3,4,5};
    dob(arr);
    for(i=0; i<5; i++)
        cout << arr[i] ;
```

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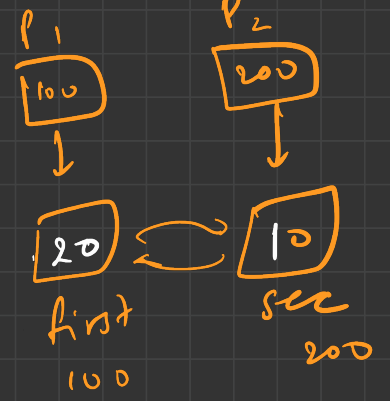
```
void swapping (int *p1, int *p2) {
    int temp = *p1;
    *p1 = *p2;
    *p2 = temp;
}

int main() {
    int first = 10;
    int sec = 20;
    swapping (&first, &sec);
    cout << first << sec;
}
```



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```
void pass (vector<int> &v1)
{
    for (i=0; i<5; i++)
        v1[i] = 10;
}
int main () {
    vector<int> v (5, 0);
    pass (v);
}
```

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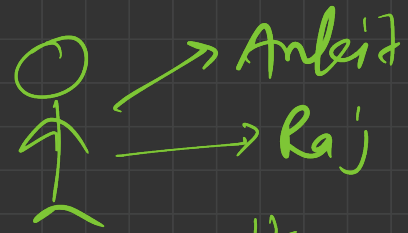
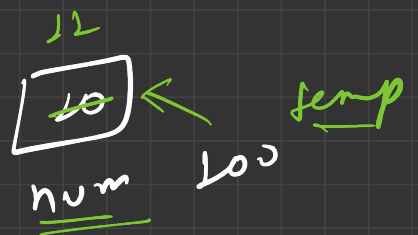


int num = 10;

int temp = num

temp = temp+1



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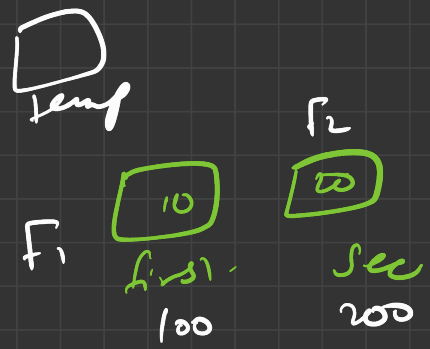
```
void swap( int &F1, int &F2) {
    int temp = F1;
    F1 = F2;
    F2 = temp;
}
int main() {
    int first = 10, sec = 20;
    swap (first, sec);
    cout << first << sec << endl;
}
```



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