





# C++ code examples

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```
#include <iostream>
using namespace std;

void fun(int x) {
    x = 30;
}

int main() {
    int x = 20;
    fun(x);
    cout << "x = " << x;
    return 0;
}
```

**output:**  
**x=20**

**bc. it pass x by value  
NOT by reference**

```

1 //
2 #include <iostream>
3 using namespace std;
4 struct students{
5     string name;
6     int marks[3];
7 };
8 void ind_elements(int m[], string n);
9 int main()
10 { struct students x;
11     x.name="Ali";
12     x.marks[0]= 9;
13     x.marks[1]= 18;
14     x.marks[2]= 88;
15     ind_elements(x.marks, x.name);
16     cout << "\n The student name is: " << x.name << endl;
17     for(int i = 0; i<3; i++)
18         cout<<x.marks[i] <<" ";
19     return 0;}
20 void ind_elements(int m[], string n)
21 {
22     n="Omar";
23     m[0]= 0;
24     m[1]= 0;
25     m[2]= 100;
26 }
27
28
29

```

output :  
name : Ali  
marks : 0 0 100

if it was :  
string & n

output will be :  
name : Omar  
marks : 0 0 100

way to send an array of struct type

```
(Global Scope) 1 main.cpp
10  infile.open("input.txt");
11
12  if(infile.fail())
13  {
14      cout<<"Your file didn't work.";
15  }
16  else{
17      string s;
18      while(infile>>s)
19      {
20          cout<<s<<endl;
21      }
22  }
```

reading  
from a file

100 %