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| --- | --- |
| By Reference | Int Array[] = {} |
| int num;  double avg;  Func2(num, avg)// legal  Func2(4, 10.6); // NOT legal  Func2(num+6, avg-10.6);// NOT legal | void Twice(int& a, int& b)  {  a \*= 2;  b \*= 2;  } |
| By Address |  |
| foo(&value); | void foo(int \*ptr){   \*ptr = 6; } |
| File Read | Write |
| #include <iostream>  #include <fstream>  #include <string>  using namespace std;  int main () {  string line;  ifstream myfile ("example.txt");  if (myfile.is\_open())  {  while ( getline (myfile,line) )  {  cout << line << '\n';  }  myfile.close();  }  else cout << "Unable to open file";  return 0;  } | #include <iostream>  #include <fstream>  using namespace std;  int main () {  ofstream myfile ("example.txt");  if (myfile.is\_open())  {  myfile << "This is a line.\n";  myfile << "This is another line.\n";  myfile.close();  }  else cout << "Unable to open file";  return 0;  } |
|  |  |
| int arr[] = {10, 20, 40, 60};  int \*p = arr;  int result = 0;       for(int i = 0; i < 4; i++) {     if((arr[i]%20)== 0){  result+= arr[i];       }    cout<<arr[i]<< “ ”;       }       cout<<result<<endl; | **cout<< arr+1; //0x8004**  **cout<< \*p; //10**  **cout<< \*(p+2);//40**  **cout<< p[3]; //60**  **cout<< &p; //0x9000**  //arr 0x8000, p 0x9000 |
| int x=20; //int variable  int \*ptr; //int pointer declaration  ptr=&x; //initializing pointer | int \*\* ptr2;  int \* ptr1 = &x;  ptr2 = & ptr1; |
|  |  |
| char ch1 = 30, ch2 = 20, ch3 = 10;  char \*ptr1 = &ch1, \*ptr2 = 0;  char &r = ch2;  ptr2 = ptr1;  r = \*ptr1 + ch3; |  |