|  |
| --- |
| #include <iostream> |
|  | using namespace std; |
|  |  |
|  | void solve() |
|  | { |
|  |  |
|  | int i = 10; |
|  | short int j = 20; |
|  | long long int k = 30; |
|  |  |
|  | cout << sizeof(i) << endl; |
|  | cout << sizeof(j) << endl; |
|  | cout << sizeof(k) << endl; |
|  |  |
|  | int \*p1 = &i; |
|  | short int \*p2 = &j; |
|  | long long int \*p3 = &k; |
|  |  |
|  | cout << p1 << " " << p2 << " " << p3 << endl; |
|  |  |
|  | // mutiply by sizeof |
|  | int \*p11 = p1 + 5; |
|  | short int \*p22 = p2 + 5; |
|  | long long int \*p33 = p3 + 5; |
|  |  |
|  | cout << p1 << " " << p11 << endl; |
|  | cout << p2 << " " << p22 << endl; |
|  | cout << p3 << " " << p33 << endl; |
|  |  |
|  | // divide by sizeof |
|  | cout << p11 - p1 << endl; |
|  | cout << p22 - p2 << endl; |
|  | cout << p33 - p3 << endl; |
|  |  |
|  | cout << (char \*)p11 - (char \*)p1 << endl; |
|  | cout << (char \*)p22 - (char \*)p2 << endl; |
|  | cout << (char \*)p33 - (char \*)p3 << endl; |
|  | } |
|  |  |
|  | int main(int argc, char \*\*argv) |
|  | { |
|  | solve(); |
|  | return 0; |
|  | } |