

```

1  #include <iostream>
2
3  using namespace std;
4
5
6  double square(double x)
7  {
8      cout << "    -->  double" << endl;
9      return x*x;
10 }
11
12
13 int square(int x)
14 {
15     cout << "    -->  int" << endl;
16     return x*x;
17 }
18
19
20 int main()
21 {
22     cout << "Hello world!" << endl;
23
24     int    ia(2),ib;
25     double da(2.65),db;
26     float  fa(2.65f),fb;
27
28     ib = square(ia);
29     cout << "int      : (" << ia << ")^2  = " << ib << endl;
30
31     db = square(da);
32     cout << "double   : (" << da << ")^2  = " << db << endl;
33
34     fb = square(fa);
35     cout << "float    : (" << fa << ")^2  = " << fb << endl;
36
37     //    char ca('a'), cb;
38     //    cb = square(ca);
39     //    cout << "char    : (" << ca << ")^2  = " << cb << endl;
40     //    cout << "char    : (" << static_cast<int>(ca) << ")^2  = " <<
static_cast<int>(cb) << endl;
41
42     return 0;
43 }

```