

```
1: // g++ -std=c++11 main.cpp
2:
3: #include <iostream>
4: using namespace std;
5:
6: constexpr int int_pow(int b, int e, int res = 1)
7: {
8:     return (e == 0) ? res : int_pow(b, e - 1, b * res);
9: }
10:
11: constexpr int my_pow(const int b, const int e)
12: {
13:     return (e == 0) ? 1 : b*my_pow(b,e-1);
14: }
15:
16: int main()
17: {
18:     cout << "Pow(int,int) via recursive function and constexpr" << endl;
19:
20:     //
21:     int b = 3;
22:     int e = 5;
23:     cout << b << "^" << e << " = " << int_pow(b,e) << " " << my_pow(b,e) << endl;
24:
25:     cout << " b = ";
26:     cin >> b;
27:     cout << " e = ";
28:     cin >> e;
29:     cout << b << "^" << e << " = " << int_pow(b,e) << " " << my_pow(b,e) << endl;
30:
31:     return 0;
32: }
```