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1 //=====
2 // Name      : H34086115-hw9-1.cpp
3 // Author    :
4 // Version    :
5 // Copyright  : Your copyright notice
6 // Description: Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 using namespace std;
11
12
13 int power(int, int);
14 int main() {
15     int base, exponents;
16     cout << "please enter a base and a exponents (>=1)" << endl;
17     cout << "base: " << endl;
18     cin >> base;
19     cout << "exponents (>=1): " << endl;
20     cin >> exponents;
21     cout << power(base, exponents);
22 }
23
24 int power(int base, int exponents) {
25     if ( exponents == 0 )// when exponents=0 results equals to 1
26         return 1;
27     else{
28         int result =1;// 設定一個數值去乘她以免只做一個動作
29         for (int counter = 0 ; exponents > counter; counter++) {
30             result = result*base;
31             //return base*base;<<這個寫法最後就是只會有原本的base*base沒有逐步累加上
32         }
33         return result;
34     }
35 }
36 }
37

```

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<terminated> (exit value: 0) H34086115-hw9-1.exe [C/C++ Appl
please enter a base and a exponents (>=1)
base:
5
exponents (>=1):
4
625

```