Log2(1000)約等於9.96578 所以至多10次必定能猜到答案

2的10次方=1024>1000

int ans;//要猜的答案

int L = 1, R = 1000, m, ctr = 0;

while(L <= R)

{

m = ( L + R ) / 2;

ctr++;

if( m < ans )

L = m + 1;

else if ( m > ans )

R = m – 1;

else

{

cout << “The answer is “ << m << ‘\n’;

cout << “Guess “ << ctr << “ times\n”;

break;

}

}

此程式保證必定在10次(含)以內猜到答案