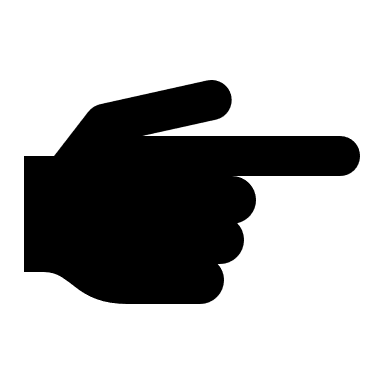


**函数递归调用。分别用递归和非递归的方式，求斐波那契数列的第N项（N为整数）。斐波那契数列通项公式为：**

F(N) = 1, (N等于1或2) F(N) = F(N-1)+F(N-2), (N大于2)

非递归：

#include <iostream>

using namespace std;

int main()

{

int a1=1,a2=1,a3,N,i;

cout << "Please ent the number of month(N>0) : ";

cin >> N;

if(N<=2){

cout << a1;

}else{

for(i=2;i<N;i++)

{

a3=a1+a2;

a1=a2;

a2=a3;

}

cout << a3;

}

return 0;

}

递归：

#include <iostream>

using namespace std;

int sum(int N)

{

if(N<=2){

return 1;

}else{

return sum(N-1)+sum(N-2);

}

}

int main()

{

int a3,N;

cout << "Please ent the number of month(N>0) : ";

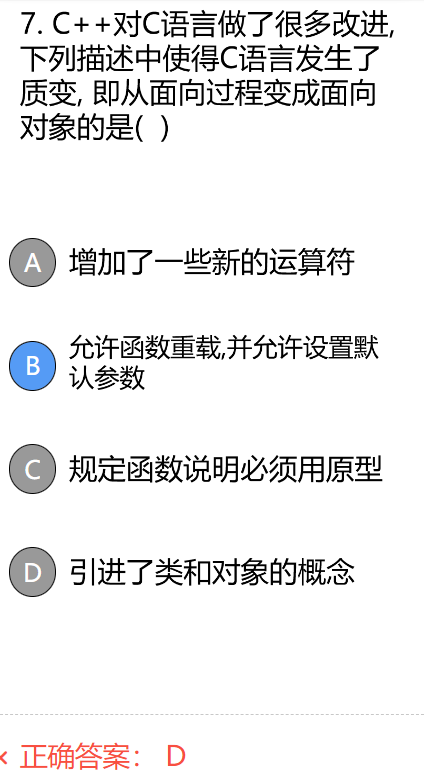
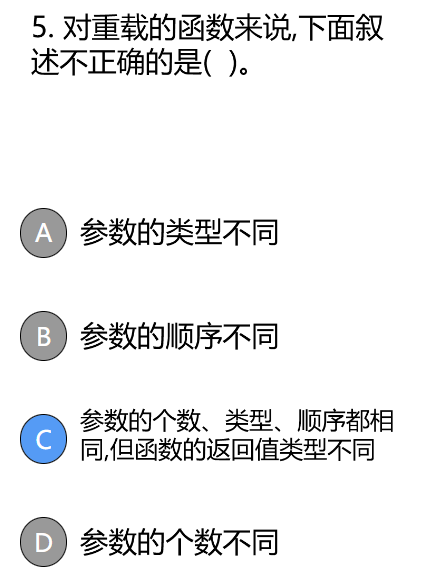
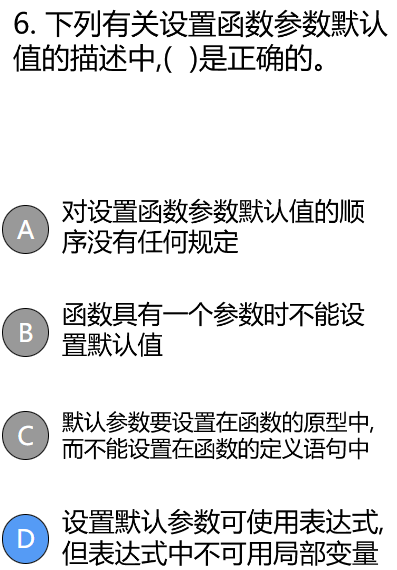
cin >> N;

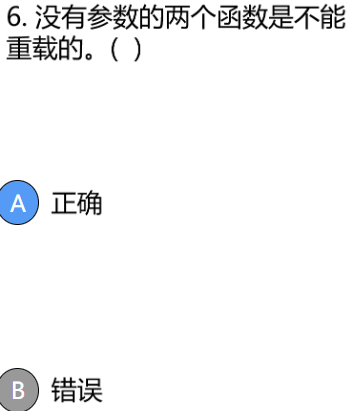
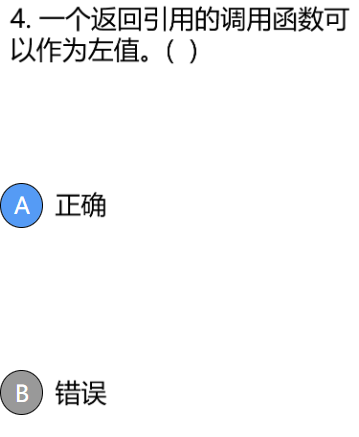
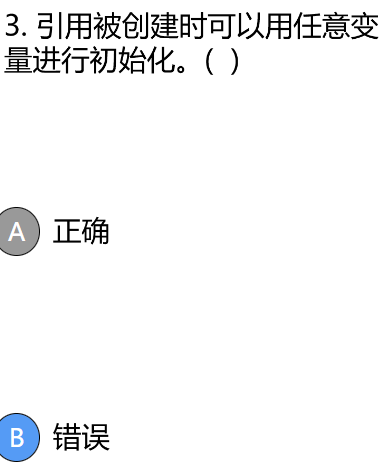
a3=sum(N);

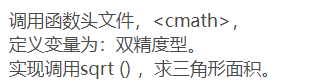
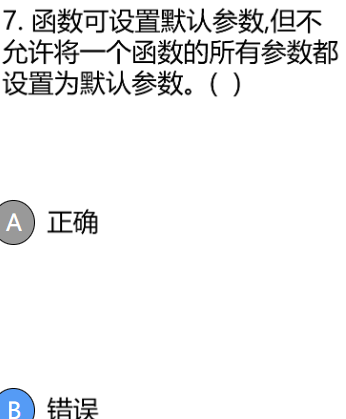
cout << a3;

return 0;

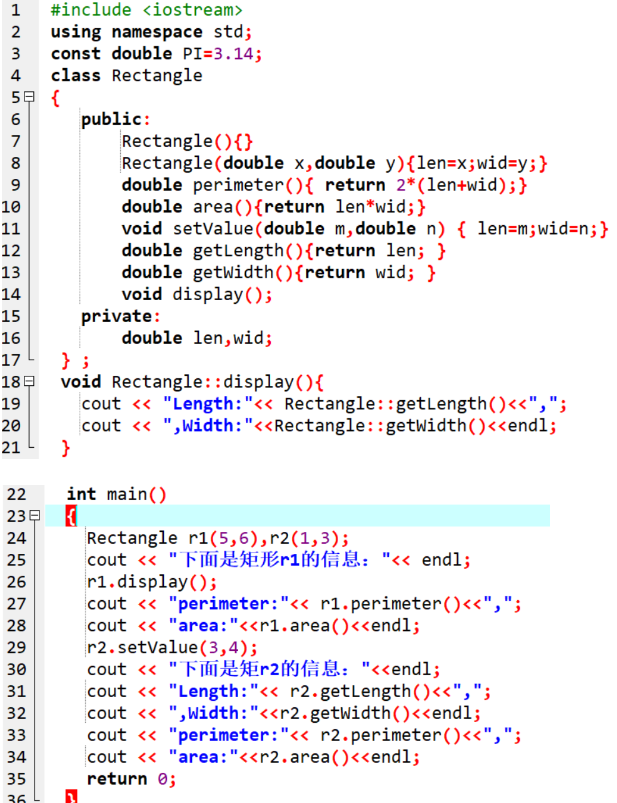
}



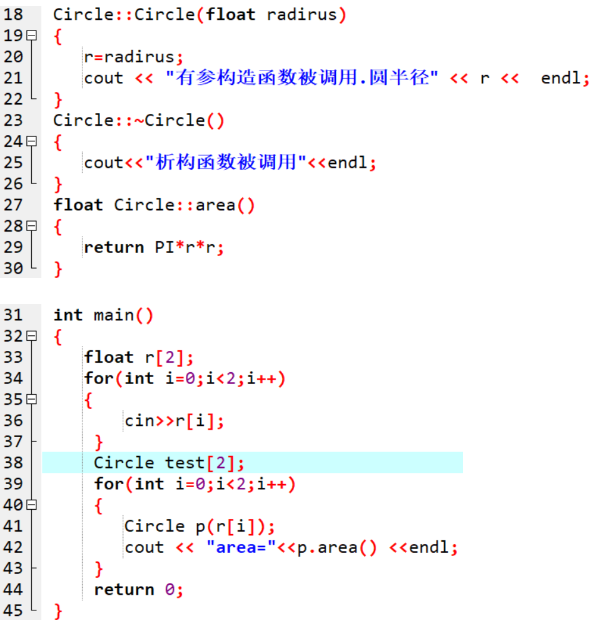
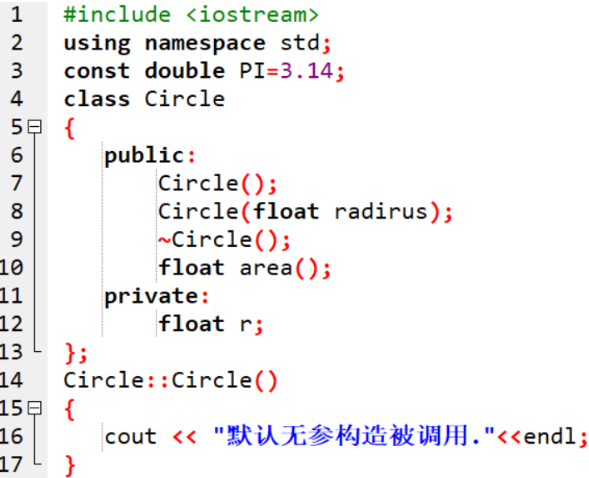




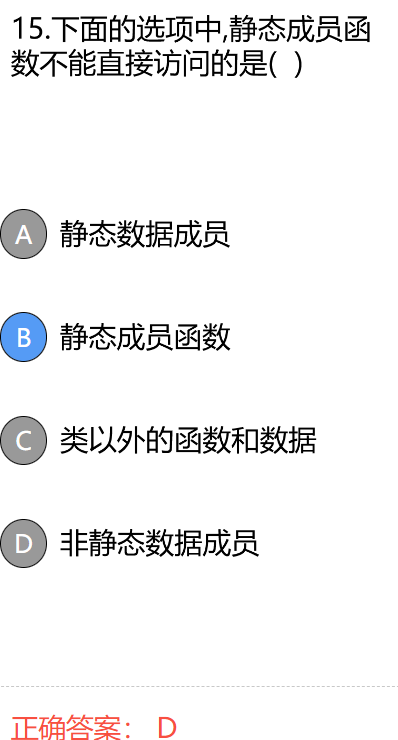
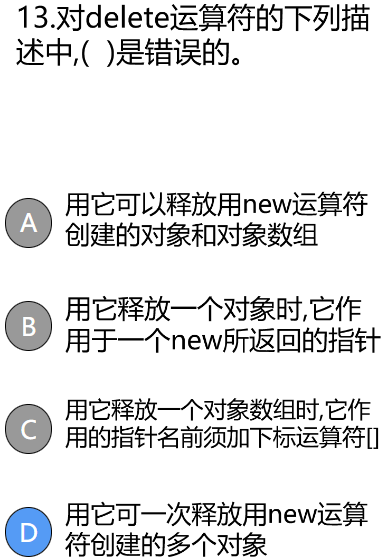
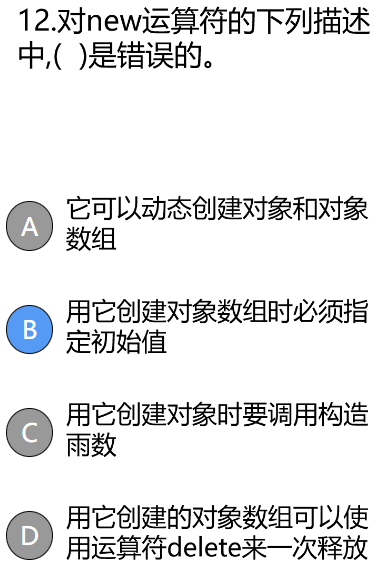
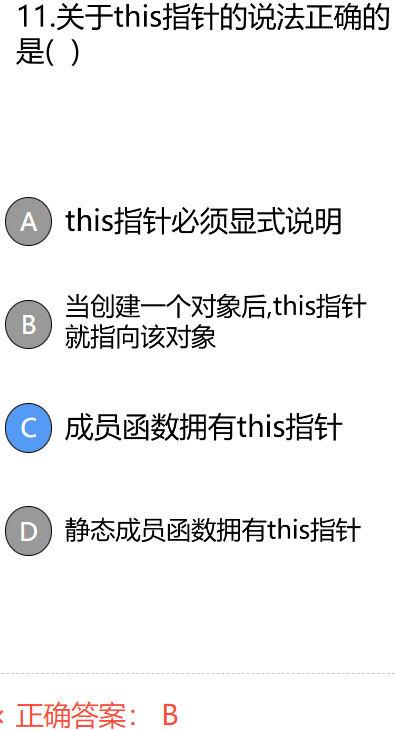
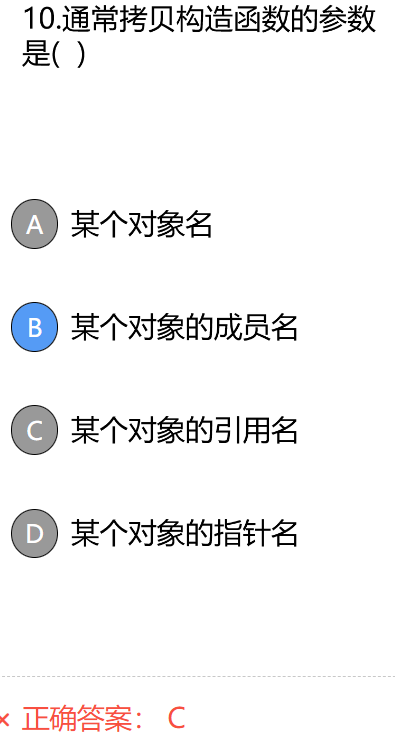
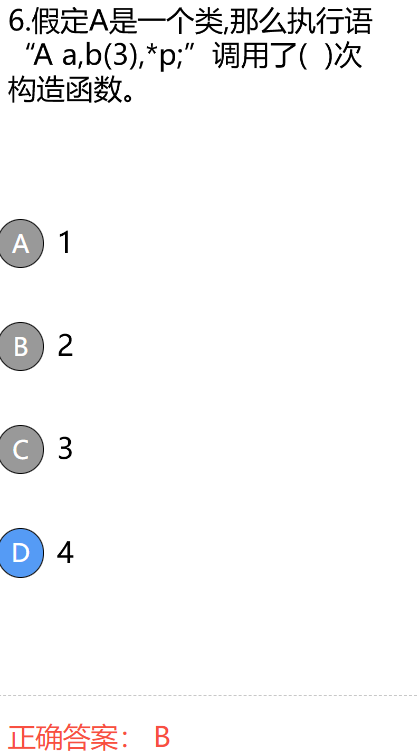
**001**



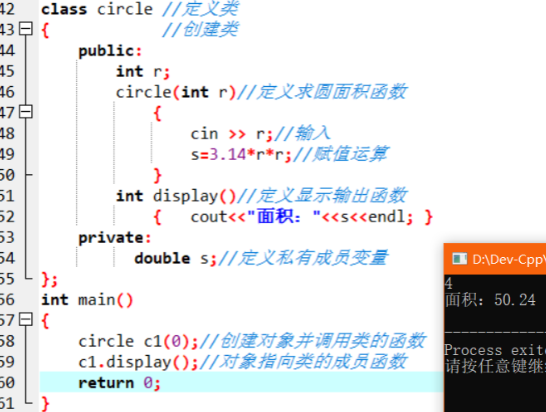
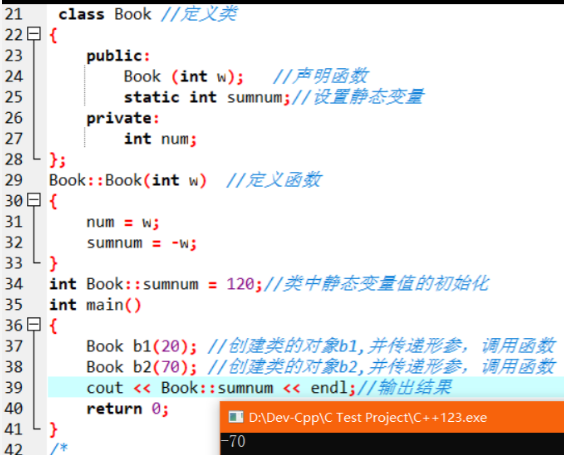
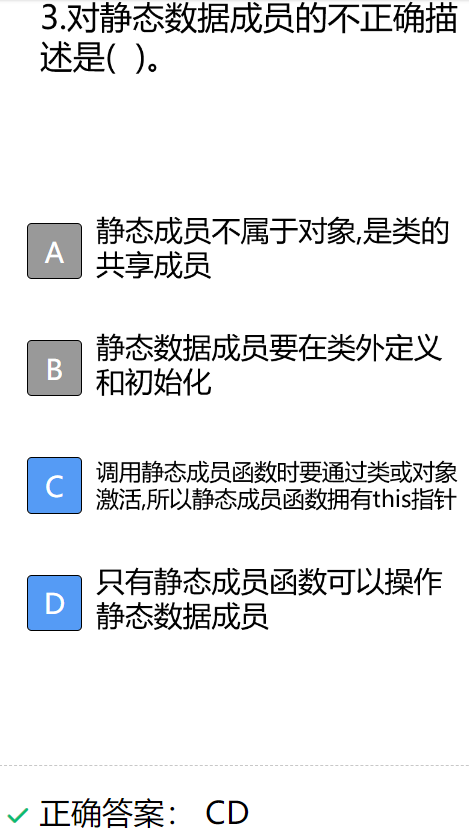
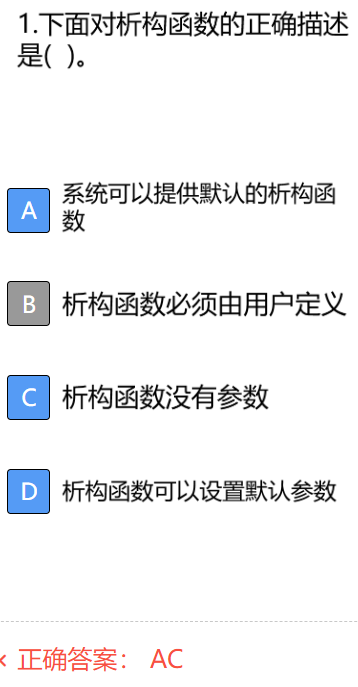
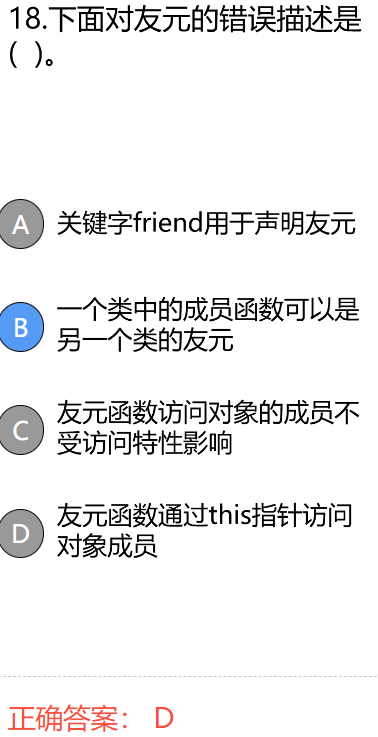
**002**

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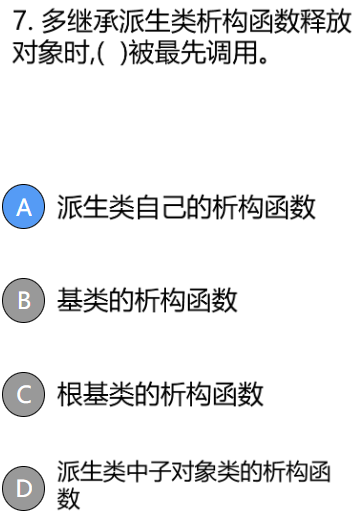
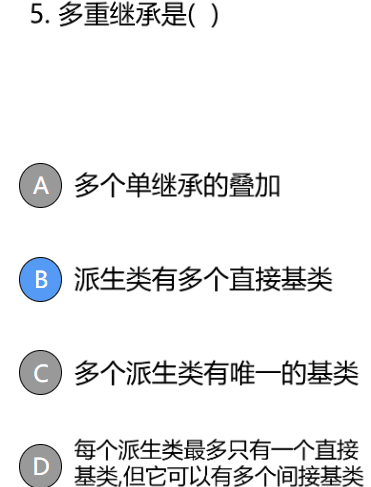
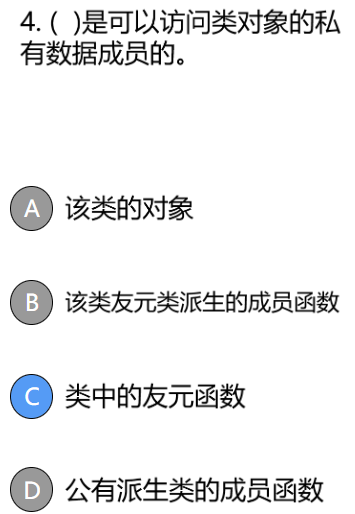
**003**

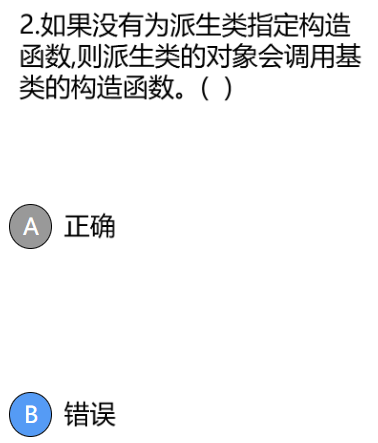
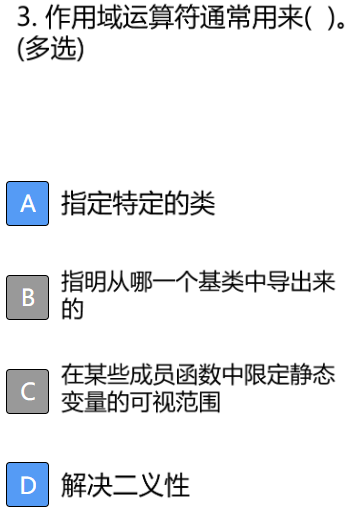
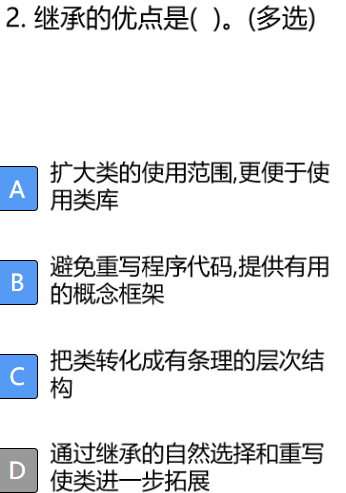
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**004**

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**005**

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