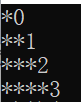
笔试部分

I

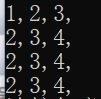
1)

考点：控制逻辑，变量作用域

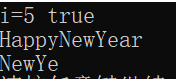
2)

 考点：静态变量和后置自增运算符。

3)

考点：参数传递（数组名，二维数组）

4)

考点：字符数组的处理

5)

考点：递归，引用参数传递。

II

1)

#include <iostream>

using namespace std;

template<class T>

void mswap(T& a,T&b)

{

T temp;

temp=a;

a=b;

b=temp;

}

template <class T>

void insert(T arr[ ],int size)

{

for(int i=1;i<=size-1;i++)

{

for(int j=i-1;j>=0;j--)

{

if(arr[j]>arr[j+1])

mswap(arr[j+1],arr[j]);

else

break;

}

}

}

int main()

{

int a[5]={4,3,7,1,9};

insert(a,5);

for(int i=0;i<5;i++)

cout<<a[i]<<" ";

return 0;

}

2)

int main()

{

int n,cnt=0;

cin>>n;

for(int i=2;i<=n;i++)

{

bool f=true;

for(int j=2;j\*j<=i;j++)

if(i%j==0) f=false;

if(f) cnt++;

}

cout<<cnt;

return 0;

}

机试部分

1）

//2 points

#include<iostream>

#include<array>

#include<cstdlib>

#include<ctime>

using namespace std;

//2 points

void sortArray(const array<int, 6>&, const array<int, 10>&, array<array<int, 4>, 4>&);

void output(const array<array<int, 4>, 4>&);

int main()

{

// 2 points

array<int, 6> array1 = {};

array<int, 10> array2 = {};

array<array<int, 4>, 4> array3 = {};

srand(time(0));

//4 points

for (int i = 0; i < 6; ++i)

array1[i] = rand() % 100 + 1;

for (int i = 0; i < 10; ++i)

array2[i] = rand() % 100 + 1;

//2 points

cout << "The 1st array is: ";

for (int i = 0; i < 6; ++i)

cout<<array1[i] <<" ";

cout << endl;

cout << "The 2nd array is: ";

for (int i = 0; i < 10; ++i)

cout << array2[i] << " ";

cout << endl;

//2 points

sortArray(array1, array2, array3);

cout << "The sorted 4\*4 array is: " << endl;

output(array3);

}

//3 points

void sortArray(const array<int, 6>& a1, const array<int, 10>& a2, array<array<int, 4>, 4>& a3)

{

array<int, 101> temp = {};

for (int i = 0; i < 6; ++i)

temp[a1[i]]++;

for (int i = 0; i < 10; ++i)

temp[a2[i]]++;

for(int m=0;m<4;++m)

for(int n=0;n<4;++n)

for (int j = 0; j <= 100; ++j)

{

if (temp[j] > 0)

{

a3[m][n] = j;

temp[j]--;

break;

}

}

}

//3 points

void output(const array<array<int, 4>, 4>& a)

{

for (int i = 0; i < 4; ++i)

{

for (int j = 0; j < 4; ++j)

cout << a[i][j] << " ";

cout << endl;

}

}

亦可用sort()

2）

//2 points

#include<iostream>

using namespace std;

int main()

{

//5 points

char sentence[100];

cout << "Please enter a sentence: " << endl;

cin.getline(sentence,100);

char \*sPtr = sentence;

//3 points

if (\*sPtr >= 'a'&&\*sPtr <= 'z')

\*sPtr -= 32;

sPtr++;

//2 points

while (\*sPtr != '\0')

{

//5 points

if (\*sPtr == ' ')

{

sPtr++;

if (\*sPtr >= 'a'&&\*sPtr <= 'z')

\*sPtr -= 32;

}

// 1 point

sPtr++;

}

//2 points

cout << sentence;

}