代码：

#include <iostream>

using namespace std;

#define Maxsize 255

class mystring{

private:

char ch[Maxsize];

int length;

public:

mystring() {

ch[0] = '\0';

length = 0;

}

mystring(string & str) {

for (int i = 0; i < str.length(); i++) {

ch[i] = str[i];

}

length = str.length();

}

mystring(mystring& str) {

for (int i = 0; i < str.length; i++) {

ch[i] = str.ch[i];

}

length = str.length;

}

char getch(int n) {

return ch[n];

}

int getlength() {

return length;

}

friend void format(mystring& s1, mystring& s2, mystring& s3, int n);

};

void format(mystring& s1, mystring& s2, mystring& s3,int n) {

int i,k;

bool bl = 0;//判断首是否有空格

for (i = 0, k = 0; i < n;) {

if (bl == 0&&s1.ch[k] == ' ') {

k++;

}

else {

bl = 1;

s2.ch[i] = s1.ch[k];

s2.length++;

i++, k++;

}

}

//判断尾是否有空格

if (s2.ch[n - 1] == ' ') {

if (k < s1.getlength()) {

for (; k < s1.getlength();) {

if (s1.ch[k] != ' ') {

s2.ch[n - 1] = s1.ch[k];

k++;

break;

}

else k++;

}

}

}

for (int j=0; k < s1.getlength(); j++,k++) {

s3.ch[j] = s1.ch[k];

s3.length++;

}

}

int main() {

string str;

str = " abcd efgh";

mystring s1(str);

mystring s2,s3;

cout << "s1=";

for (int i = 0; i < s1.getlength(); i++) {

cout << s1.getch(i);

}

format(s1, s2, s3, 5);

cout << endl << "s2=";

for (int i = 0; i < s2.getlength(); i++) {

cout << s2.getch(i);

}

cout << endl << "s3=";

for (int i = 0; i < s3.getlength(); i++) {

cout << s3.getch(i);

}

}

运行结果：

