机考测试报告

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测试代码

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

#define M 10

#define N 35

typedef struct {

char content[N];

int length;

} String;

void setRandomString(String \*s);

void sortString(String \*sArray);

void exchangeArray(String \*, String \*);

void printArray(String \*s);

int main()

{

String \*sArray[M];

int i = 0;

printf("Set random array as:\n");

for (; i < M; i++){

setRandomString(sArray[i]);

printArray(sArray[i]);

}

printf("Sorting Strings:\n");

sortString(\*sArray);

return 0;

}

void setRandomString(String \*s)

{

srand(time(NULL));

s->length = rand() % (N+1);

int i = 0;

for (; i < s->length; i++){

s->content[i] = rand() % 26 + 'a';

}

}

void sortString(String \*sArray)

{

int i, j, index, letter1, letter2;

for (i = 0; i < M - 1; i++){

index = i;

letter1 = sArray[index]->content[0];

for (j = i + 1; j < M; j++){

letter2 = sArray[j]->content[0];

if (letter2 < letter1 ||

(letter2 == letter1 && sArray[j]->length < sArray[index]->length)){

index = j - 1;

}

}

if (index != i){

exchangeArray(sArray[i], sArray[index]);

}

printArray(sArray[i]);

}

}

void exchangeArray(String \*s1, String \*s2)

{

String \*copy;

int len = (s1->length > s2->length) ? s1->length : s2->length;

int i = 0;

for (; i < len; i++){

copy->content[i] = s1->content[i];

s1->content[i] = s2->content[i];

s2->content[i] = copy->content[i];

}

copy->length = s1->length;

s1->length = s2->length;

s2->length = copy->length;

}

void printArray(String \*s)

{

int i = 0;

for (; i < s->length; i++){

printf("%c ", s->content[i]);

}

printf("\n");

}

测试过程

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| --- | --- | --- | --- | --- |
| 序号 | 测试任务 | 测试方法 | 截图 | 测试结论 |
| 1 | 测试能否正确set和排序 | Run |  | 测试未通过 |

测试结论

部分完成