机考测试报告

姓名：王富临 学号：U202413454 题号：B03

测试代码

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

void setRandomArray(int \*x, const int size);

void sortArraySelect(int \*x, const int size);

void displaySumRelation(int \*x, const int size, int \*foundNum);

void printArray(int \*x, const int size);

int main()

{

const int size = 16;

int x[size];

setRandomArray(x, size);

sortArraySelect(x, size);

int \*foundNum = (int\*)malloc(sizeof(int));

displaySumRelation(x, size, foundNum);

free(foundNum);

return 0;

}

void setRandomArray(int \*x, const int size)

{

srand(time(NULL));

int i = 0;

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

x[i] = rand() % 99 +1;

}

printArray(x, size);

}

void sortArraySelect(int \*x, const int size)

{

int i, j, index, value;

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

index = i;

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

if (x[j] < x[index]){

index = j;

}

}

value = x[index];

x[index] = x[i];

x[i] = value;

}

printArray(x, size);

}

void displaySumRelation(int \*x, const int size, int \*foundNum)

{

int i, j, k;

for (i = 2; i < size; i++){

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

for (k = 0; k <= j - 1; k++){

if (x[i] == x[j] + x[k]){

(\*foundNum)++;

printf("{%d,%d,%d}\n", x[k], x[j], x[i]);

}

}

}

}

if (\*foundNum == 0){

printf("Not found.");

}

}

void printArray(int \*x, const int size)

{

int i = 0;

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

printf("%d ", x[i]);

}

printf("\n");

}

测试过程

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 序号 | 测试任务 | 测试方法 | 截图 | 测试结论 |
| 1 | 测试能否正确打印和排序 | Run |  | 测试通过 |
| 2 | 测试能否正确找出和的关系 | Run |  | 测试通过 |
| 3 | 再次尝试是否完成全部功能 | Run |  | 测试通过 |

测试结论

该题所有要求都完成