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Report: HW3

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Class: 物理系

Description:

How do you finish this homework? Gooooooooogle

What did you learned from this homework? 使用時間亂數還有陣列

Did you do or write something special for bonus? 沒☹

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Code:

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

int main(int argc, char \*argv[])

{

srand((unsigned) time(NULL));

int n = atoi(argv[1]), p = atoi(argv[2]);

int m[p];

int i;

for(i=0; i < p; i++)

m[i] = rand()%n + 1; //設定答案

int u[p], h=0, x=0, k; //h是正確 x是位置不對

while(1)

{

for(i=0; i<p; i++){

scanf("%d", &u[i]); //輸入數字

if(u[i] == m[i]) //檢查幾個正確

h++;

}

for(k=0; k<p; k++){ //檢查幾個數字相同

for(i=0; i<p; i++){

if(u[k] == m[i]){

x++;

break;

}

}

}

x = x-h; //扣掉重複計算

printf(" -> %dH %dX \n", h, x);

if(h == p) //猜中 -> 跳出迴圈

break;

h=x=0; //重置HX

}

printf("You are right. Game over.\n");

return 0;

}

Compilation:

gcc hw3.c -o hw3

Execution:

./hw3 5 4

Output:

1 2 3 4

-> 0H 2X

1 3 3 1

-> 0H 2X

1 3 5 1

-> 1H 1X

2 1 5 2

-> 2H 1X