

Institute of Technology of Cambodia



Department of Information and Communication Engineering (GIC)

Assignment4 Challenge Problem

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Subject : Algorithms and Programming (TD)

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```

1  #include<stdio.h>
2  #include<time.h>
3  main(){
4
5      srand(time(0));
6      int n,i=0;
7      int min=1, max=15;
8
9      n=rand()%max+min;
10
11     printf("\n*****Number prediction program*****\n\n");
12     printf("Generating a random number ...!\n");
13     printf("A randomized number has been generated successfully!\n");
14
15     while(1){
16         i=i+1;
17         int a;
18         printf("\n\tEnter your guess number : ");
19         scanf("%d",&a);
20
21         if(n<a){
22             printf("Your predicting is to big.\n");
23             printf("You can try predicting a smaller number.\n");
24         }
25         else if (n>a){
26             printf("Your predicting is to small.\n");
27             printf("You can try predicting a bigger number.\n");
28         }
29         else{
30             printf("Congrats!!! You have predict it right in %d times.\n",i);
31             break;
32         }

```

```

"D:\school\Year3\2. Algorithm & Programming (S1)\Challenge Problem.exe"

*****Number prediction program*****

Generating a random number ...!
A randomized number has been generated successfully!

Enter your guess number : 4
Your predicting is to big.
You can try predicting a smaller number.

Enter your guess number : 1
Your predicting is to small.
You can try predicting a bigger number.

Enter your guess number : 3
Congrats!!! You have predict it right in 3 times.

Process returned 0 (0x0)   execution time : 7.313 s
Press any key to continue.

```