[**C Reference function rand() generate a random number**](http://www.codingunit.com/c-reference-stdlib-h-function-rand-generate-a-random-number)

This function of stdlib will generate a random number.

**Usage of rand():**

int rand (void);

**Parameters:**

The function rand() returns a pseudo-random integral number.  
This number will be in the range 0 to RAND\_MAX. The algorithm of rand() uses a seed to generate the series of numbers, this is why srand must be used to initialize the seed to some distinctive value.

The constant RAND\_MAX is defined in standard library (stdlib).

The random numbers are delivered from a predetermined range.

**Return value:**

Will return an integer value between 0 and RAND\_MAX.

**Source code example of rand():**

#include<stdio.h>

#include<stdlib.h>

#include<time.h>

int main ()

{

int number, input;

/\* initialize random seed: \*/

srand ( time(NULL) );

/\* Generate a random number: \*/

number = rand() % 10 + 1;

do {

printf ("Guess the number (1 to 10): ");

scanf ("%d",&input);

if (number > input)

printf ("The number is higher\n");

} while (number!=input);

printf ("That is correct!\n");

return 0;

}

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1. *Tzrinz* on October 28th, 2013:

thanx:)

1. *Aki* on November 1st, 2013:

Had the idea for 1-10 and thankfully yours is the only one i found that helped me

1. *nisha* on December 11th, 2013:

a C program to find the total number of  
students with Pass and Fail grades in a class  
of 35

please can reply

1. [***asdf***](http://codingunit.com/) on April 16th, 2014:

nisha, if pass is 50marks and below that is fail then,this is the solution to count the passes and fails.

int students,pass=0,fail=0;  
for(students=35;students=50)  
{  
pass=pass+1;  
}  
if(marks<50)  
{  
fail=fail+1;  
}  
}  
printf("Fail %d\n",fail);  
printf("Pass %d\n",pass);