

C LIBRARY FUNCTION - RAND

http://www.tutorialspoint.com/c_standard_library/c_function_rand.htm

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Description

The C library function **int rand(void)** returns a pseudo-random number in the range of 0 to **RAND_MAX**.

RAND_MAX is a constant whose default value may vary between implementations but it is granted to be at least 32767.

Declaration

Following is the declaration for rand function.

```
int rand(void)
```

Parameters

- NA

Return Value

This function returns an integer value between 0 and **RAND_MAX**.

Example

The following example shows the usage of rand function.

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int i, n;
    time_t t;

    n = 5;

    /* Intializes random number generator */
    srand((unsigned) time(&t));

    /* Print 5 random numbers from 0 to 49 */
    for( i = 0 ; i < n ; i++ )
    {
        printf("%d\n", rand() % 50);
    }

    return(0);
}
```

Let us compile and run the above program that will produce the following result:

```
38
45
29
29
47
```

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