FND 13

remainder.c Source code

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

int remainder(int n, int d)
{
    if (n < d)
    {
        return n;
    }
    else
    {
        return remainder ((n - d), d);
    }
}

int main()
{
    int dividend; // المقسوم
    int divisor;  // المقسوم عليه
    printf("Enter the dividend: \n");
    scanf("%d", &dividend);
    printf("Enter the divisor: \n");
    scanf("%d", &divisor);
    printf("Remainder of dividing the dividend by the divisor: %d\n" ,remainder(dividend, divisor));
    return EXIT_SUCCESS;
}
```

remainder.c Output

```
[mmoustaf@gc112m38 FND13]$ gcc -o remainder remainder.c
remainder.c:4:5: warning: conflicting types for built-in function 'remainder' [enabled by default]
 int remainder(int n, int d)
     ^
[mmoustaf@gc112m38 FND13]$ ./remainder
Enter the dividend:
100
Enter the divisor:
9
Remainder of dividing the dividend by the divisor: 1
[mmoustaf@gc112m38 FND13]$ ./remainder
Enter the dividend:
10
Enter the divisor:
5
Remainder of dividing the dividend by the divisor: 0
[mmoustaf@gc112m38 FND13]$ 
```