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1- Calculate (5<sup>6</sup>) without using the program

### Solution

3

2- Calculate (5^7) without using the program

## Solution

2

3- Calculate (5<sup>2</sup>) without using the program

### Solution

7

4- Calculate (12<sup>8</sup>) without using the program

## Solution

4

5- Calculate (20^7) without using the program

Solution

28

6- Calculate (30^15) without using the program

#### Solution

17

7- Calculate (50^30) without using the program

#### Solution

44

8- Write a program that performs bitwise XOR (exclusive OR) operation between two given integers and prints the result.

اكتب برنامجًا ينفذ عملية XOR بين عددين صحيحين محددين ويطبع النتيجة.

### Output

Result of bitwise XOR operation between 5 and 6: 3

#### Solution

```
//www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5, y = 6;
    int result = x ^ y;

    // Output: Display the result
    printf("Result of bitwise XOR operation between %d and %d: %d\n", x, y, result);
    return 0;
}
```

9- Write a program that takes two integers as input from the user, performs a bitwise XOR (exclusive OR) operation between them, and prints the result.

اكتب برنامجًا يأخذ عددين صحيحين كمدخلات من المستخدم، وينفذ عملية XOR بينهما، ويطبع النتيجة.

### Input

```
Enter two numbers: 5 7
```

## Output

Result of bitwise XOR operation between 5 and 7: 2

#### Solution

```
//www.gammal.tech
#include <stdio.h>
int main() {
   int x, y;

   // Input: Get two numbers from the user
   printf("Enter two numbers: ");
   scanf("%d %d", &x, &y);

   // Bitwise XOR operation
   int result = x ^ y;

   // Output: Display the result
   printf("Result of bitwise XOR operation between %d and %d: %d\n", x, y, result);
   return 0;
}
```

10- Write a program that swaps the values of two integers without using a temporary variable.

without using a اکتب برنامجًا یقوم بتبدیل قیم عددین صحیحین temporary variable

### Output

```
After swapping: x=7, y=5
```

# Solution

```
//www.gammal.tech
#include <stdio.h>
int main() {
   int x = 5, y = 7;

   // Swap without using a temporary variable
   x = x ^ y;
   y = x ^ y;
   x = x ^ y;
   // Output: Display the swapped values
   printf("After swapping: x=%d, y=%d\n", x, y);
   return 0;
}
```