In [16]:

```
matrix = []
r = int(input("Enter no. of rows: "))
c = int(input("Enter no. of columns: "))
print("Enter row-wise rectangular matrix:")
for i in range(0, r):
    row = []
    for j in range(0, c):
        row.append(int(input()))
    matrix.append(row)
max_count = 0
print("\nMatrix:")
for row in matrix:
    for item in row:
        print(item, end=" ")
    print()
middle_row = r // 2
middle_column = c // 2
row = matrix[middle_row]
print("\nMiddle Row:")
print(row)
print("\nMiddle Column:")
column = [row[middle_column] for row in matrix]
print(column)
middle_element = matrix[middle_row][middle_column]
s1 = 0
s2 = 0
for i in row:
    s1 += i
for i in column:
    s2 += i
print("\nSum of elements in the middle row:", s1)
print("Sum of elements in the middle column:", s2)
s=((s1+s2)-middle_element)
print("Sum : ",s)
```

```
Enter no. of rows: 3
Enter no. of columns: 5
Enter row-wise rectangular matrix:
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Matrix:
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15

Middle Row:
[6, 7, 8, 9, 10]

Middle Column:
[3, 8, 13]

Sum of elements in the middle row: 40
Sum of elements in the middle column: 24
Sum :  56
```

In [20]:
```python
main_string = input("Enter a string : ")
substring = input("Enter substring to find : ")
indexes = []
for i in range(len(main_string) - len(substring) + 1):
    if main_string[i:i + len(substring)] == substring:
        indexes.append(i)
if indexes:
    print(f"The substring '{substring}' was found at indexes: {indexes}.")
else:
    print(f"The substring '{substring}' was not found.")
```

```
Enter a string : ABABCDABCABCDBDCABBABABAABCD
Enter substring to find : ABCD
The substring 'ABCD' was found at indexes: [2, 9, 24].
```

In [22]:
```python
def multiply_recursive(a, b):
    if b == 0:
        return 0
    elif b > 0:
        return a + multiply_recursive(a, b - 1)
    else:
        return -multiply_recursive(a, -b)
a=int(input("Enter first integer : "))
b=int(input("Enter second integer : "))
result = multiply_recursive(a, b)
print(result)
```

```
Enter first integer : 2
Enter second integer : 3
6
```