Write a C program to create an array of function pointers, where each function takes two integers as arguments and returns an integer. Include functions for addition, subtraction, multiplication, and division. Use the array to perform these operations on two integers and print the results.

#include <stdio.h>

int add(int a, int b);

int subtract(int a, int b);

int multiply(int a, int b);

int divide(int a, int b);

int main() {

int (\*oper[4])(int, int) = { add, subtract, multiply, divide };

int a = 20, b = 4;

printf("Addition: %d + %d = %d\n", a, b, oper[0](a, b));

printf("Subtraction: %d - %d = %d\n", a, b, oper[1](a, b));

printf("Multiplication: %d \* %d = %d\n", a, b, oper[2](a, b));

printf("Division: %d / %d = %d\n", a, b, oper[3](a, b));

return 0;

}

int add(int a, int b) {

return a + b;

}

int subtract(int a, int b) {

return a - b;

}

int multiply(int a, int b) {

return a \* b;

}

int divide(int a, int b) {

if (b != 0) {

return a / b;

} else {

printf("Error: Division by zero\n");

return 0;

}

}