Exercises
8 – Signals and Error Handling

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Exercise 1

Consider a program that reads memory location 0, which is an invalid location for user processes:

```c
int main() {
    int a;
    a = *(int *)0;
}
```

The program will cause a Segmentation fault. The task is to add a signal handler to trap the signal. The desired output should be:

**Output**

I got signal 11
Exercise 2

Write a C program that accepts two integers as argument, divides the first number by the second. When the divisor is zero, the program shall catch the corresponding signal, rather than crashing.

Example:

Input
./myprogram 2 3

Output
0.67

Input
./myprogram 2 0

Output
Received SIGFPE, Divide by Zero Exception