Your job will be to create a program that uses pointers. Your output must be done in the main function and the calculations **MUST** be done in the three functions. Therefore you **MUST** use pointers correctly.

You must declare and implement the following 3 functions. Below are the three prototypes that you must use in this program.

void max(int \*a, int \*b, int \*c, int \*d, int \*result);

void min(int \*a, int \*b, int \*c, int \*d, int \*result);

void mul(int \*a, int \*b, int \*c, int \*d, int \*result);

The functions have the following meaning:

**max**

finds the max value of a,b,c,d and stores the largest value in result.

**min**

finds the min value of a,b,c,d and stores the largest value in result.

**mul**

multiplies a \* b \* c and divides by d. Stores that value in result.

Below is an example input/output. This input will be read in via the keyboard (use

scanf).

|  |  |
| --- | --- |
| input | output **(note that user input is shown in bold)** |
| 1 2 3 4 | Enter the 4 numbers: **1 2 3 4**  The max is 4. The min is 1. (a \* b \* c) / d = 1 |
| 100 3 201 103 | Enter the 4 numbers: **100 3 201 103**  The max is 201. The min is 3. (a \* b \* c) / d = 585 |

Your output **MUST** match exactly the output and the input from above.

You only need to submit your file (pointers.c)

**REMEMBER: IF YOUR PROGRAM DOES NOT COMPILE WHEN I DOWNLOAD AND COMPILE IT, YOU WILL LOSE ½ OF THE GRADE POSSIBLE.**