

Given three floating-point numbers  $x$ ,  $y$ , and  $z$ , output  $x$  to the power of  $z$ ,  $x$  to the power of ( $y$  to the power of  $z$ ), the absolute value of  $y$ , and the square root of ( $xy$  to the power of  $z$ ).

Ex: If the input is:

```
5.0 6.5 3.2
```

the output is:

```
172.466 1.29951e+279 6.5 262.43
```

349484.2121996.qx3zqy7

LAB  
ACTIVITY

2.27.1: LAB: Using math functions

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### main.cpp

```
1 #include <iostream>
2 #include <cmath>
3 using namespace std;
4
5 int main() {
6     double x;
7     double y;
8     double z;
9
10    /* Type your code here. Note: Include the math library above first. */
11
12    return 0;
13 }
14
```