```
from python import Python as p
import math
def find root(x: Int):
  return math.sqrt(x)
def find log(x:Float16):
def find sin(x=0.00):
  mt=p.import module("math")
def find cos(x=0.00):
  mt=p.import module("math")
def find gcd(x: Int, y: Int) -> Int:
def find factorial(x: Int) -> Int:
  return math.factorial(x)
def find lcm(x: Int, y: Int) -> Int:
def find gamma(x: SIMD[DType.float16, 4]) -> SIMD[DType.float16, 4]:
   return math.gamma(x)
def find asin(x=0.00):
```

```
def find acos(x: SIMD[DType.float16, 4]) -> SIMD[DType.float16, 4]:
   return math.acos(x)
def main():
  vector float16 = SIMD[DType.float16, 4](1.0, 2.0, 3.0, 4.0)
  vector int16 = SIMD[DType.int16, 4](1, 2, 3, 4)
  find log(10)
```

Output:

```
• sohoxic@pop-os:~/Documents/MOJO/DAY 3/assignment$ '/home/sohoxic/.modular/pkg/packages.modular.com_mojo/bin/mojo' '/home/sohoxic/Documents/MOJO/DAY 3/assignment '/l.mojo' acos: [0.0, nan, nan, nan] sin value 0.0 log 2.302555092994046 gamma: [1.0, 1.0, 2.0, 6.0] asin value 0.0 cos value 0.0 gcd: 12 factorial: 120 lcm: 60 sqrt: 4
```

2.

```
* Zmojo 1 * Smojo * Zmojo * Zm
```

4.

```
*** Zmojo 1 *** Smojo *** ** Amojo *** Amojo *
```

```
| 2 mole | 1 | 4 smole | X | 4 mole | 4 2 mole | 4 cmole | 4 2 mole | 4 mole | 1 mole | 1 mole | 2 mole | 2 mole | 3 mol
```

6.

```
| A mojo | X | 1 mojo | 4 mojo | 1 mojo | 1 mojo | 2 mojo | 1 mojo | 2 mojo | 1 mojo | 2 mojo | 2 mojo | 3 mojo | 3 mojo | 3 mojo | 3 mojo | 4 mojo | 3 mojo
```