Suppose you want to find the maximum of two integers \( a, b \): 

Typical C code:

```c
if(a >= b)
    max = a;
else
    max = b;
```

In Dijkstra’s Guarded command this would be translated to:

```c
if a >= b → max := a
[] b >= a → max := b
fi
```

Similarly Euclid’s algorithm to find the greatest common divisor algorithm of two positive integers \( a, b \) in C would be:

```c
while (a != b) {
    if (a > b)
        a = a - b;
    else
        b = b - a
}
cout << "GCD = " << a << endl;
```

In Dijkstra’s Guarded command this would be translated to:

```c
d a > b → a = a-b
[] b > a → b = b-a
od
gcd = a
```

**QUESTION FOR YOU:**

Given any three integers \( a, b, c, d \) (assume they have been initialized) write a Guarded command routine to sort them in ascending order.