Week 3 Assignment 3

You are given the following C± code segment:

```c
if (a > b) {
    if (c > d) {
        x = 1;
    } else {
        x = 2;
    }
} else {
    if (e > f) {
        x = 3;
    } else {
        x = 4;
    }
}
```

1. How many test cases are needed to achieve decision coverage on the given C± code?

2. How many test cases are needed to achieve basic condition coverage on the given C± code?

3. How many test cases are needed to achieve multiple condition coverage on the given C± code?