Case Testing Practice

Directions: You have created the API below, and other engineers have been slated to code these objects. You need to be 100% sure that they work exactly as specified. Go ahead and assume that the other engineers are either dumb or out to get you. Please create tests that will report back to you on every possible use case of the following Object. I will send you an Interface that will allow you to use this NumberLine in code without having an actual implemented NumberLine.

You will have the remainder of the period, and then we will go over it together.

**Method Summary, NumberLine**

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| **Modifier and Type** | **Method and Description** |
|  | **NumberLine**()  Creates a NumberLine from 0 (inclusive) to 1 (exclusive). |
|  | **NumberLine**(int small, int big, boolean smallInclusive, boolean bigInclusive)  Creates the NumberLine specified. If number line contains illegal specifications (such as 0 inclusive to 0 exclusive, or small > big), creates a default NumberLine. |
| int | **getSmall**()  Returns the lower bound of the NumberLine. |
| int | **getBig**()  Returns the upper bound of the NumberLine. |
| boolean | **smallInclusive**()  Returns if the lower bound is inclusive. |
| boolean | **bigInclusive**()  Returns if the upper bound is inclusive. |
| boolean | **Intersect**(NumberLine line)  Returns true if the number lines contain any of the same values whatsoever. |
| String | **toString**()  Returns a string representation of the object using [ and ] for inclusive, or ( and ) for exclusive. (eg. default would return "[0,1)") |