

## Validation Loop Logic You Must Know

```
int newNumber = getValidNumber("Enter a positive number", 1, 99999);
```

```
... ..
```

```
private static int getValidNumber(String message, int low, int high) {  
    int newValue = getInteger(message);  
    while (newValue < low || newValue > high) {  
        System.out.println("Invalid value. Enter a number from "  
                            + low + " to " + high);  
        newValue = getInteger(message);  
    }  
    return newValue;  
}
```

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```
String day = getValidDay("Enter a day of the week (m,tu,w,th,f)"  
                        + " , or q to quit");
```

```
... ..
```

```
private static String getValidDay(String message) {  
    String newValue = getString(message);  
    while (isInvalidDay(newValue)) {  
        System.out.println("Invalid value.");  
        newValue = getString(message);  
    }  
    return newValue;  
}  
  
private static String isInvalidDay(String newVal) {  
    String newValLowerCase = newVal.toLowerCase();  
    if (newValLowerCase.startsWith("m")) return false;  
    if (newValLowerCase.startsWith("tu")) return false;  
    if (newValLowerCase.startsWith("w")) return false;  
    if (newValLowerCase.startsWith("th")) return false;  
    if (newValLowerCase.startsWith("f")) return false;  
    if (newValLowerCase.startsWith("q")) return false;  
    return true;  
}
```