In-class problem

The data below shows the attributes for four different tissue papers and whether they were good for your science experiment or not.

1.12

| ID | Color | Acid Durability | Strength | Class |
|----|--------|-----------------|----------|-------|
| 1 | Yellow | 7 | 7 | bad |
| 2 | White | 7 | 4 | bad |
| 3 | Yellow | 3 | 4 | good |
| 4 | Green | 1 | 4 | good |

1. Using a KNN classifier with k=3, predict whether the following tissue paper will be good or bad for your science experiment. *Do not worry about normalizing the data*.

| 5 | White | 4 | 6 | ? |
|---|----------|------|-----|---|
| | 2 6/8, 1 | 2007 | bad | |

2. Now use weighted voting to predict if the tissue paper is good or bad. Does the answer change?

$$\frac{1}{10} + \frac{1}{13} = 1.177$$

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