**Design Idea Summary – Print out one copy of this sheet, fill it out based on your design ideas, and bring it to class November 18.**

**Your Name: Joshua Ruebusch**

**Summary of results from Design Idea Worksheets:**

Fill in one column of the table for each of your designs. (No, you don’t have to have 15 designs. I just wanted to make sure you had plenty of space)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Design #** | **1** | **2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **build**  **running time** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **getNearest**  **running time** | **Or O(n)** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Estimated accuracy (1.0 is perfect)** | **1.0** | **1.0** |  |  |  |  |  |  |  |  |  |  |  |  |
| **Estimated Difficulty** | **7** | **1** |  |  |  |  |  |  |  |  |  |  |  |  |

**Which design will you use:** (Note – If you do NOT use this design for phase 2, you will lose 10% on phase 2)

I do want to use design 1.

**Explain why you chose this design:**

I do want to use design 1, not simply because it is the only one there, but because it is what I believe will be the most efficient in both speed and accuracy. Though it will sometimes be just as slow as another solution, it will usually be faster in the best case. It will also find the correct answer with 100% accuracy provided I implement it correctly.