# Project 1 Analysis

1) If you used different arrays/structures/classes to represent the different types of sets, would it be possible to have overloaded methods or operations that would provide the correct functionality regardless of whether or not you were using sets, multi sets, or fuzzy sets? Why or why not? (You do not need to code this, just answer the question).

2) Would it be possible to use the same data set/structure/class to store sets, multi sets, and fuzzy sets? Why or why not?

3) How easy or difficult is it to determine the type of set that you need to use based on the users query? Why?

4) Is it possible to store the data from one type of set (plain sets, multi sets, fuzzy sets) in another type? Would you need to lose data in order to do so? Why?

5) Discuss what implications your answers to questions 1 – 4 have for someone trying to code an interface which would allow users to type in natural language queries.

6) Discuss what implications your answers to questions 1 – 5 have for someone trying to code an interface which would allow users to access arbitrary types of data using natural language.

In a very fundamental sense, the answers to questions 5 and 6 have not only shaped how the internet has evolved, but has equally shaped how people interact with the internet. One of the definitions of a ‘digital native’ is someone who is comfortable and adept at finding and interpreting answers to questions in an online world.

7) Considering your answers to 5 and 6 above, do you in particular, and programmers in general, have a good feel as to how people use data in today’s world? Why do you say that? There is no wrong answer to this, I just want you to think deeply about how you view data vs how a typically internet user mighty view data.