Workshop 6 exercise 2

**Which container would you choose in the following situations? Give reasons.**

1. To keep a record of the English names of types of birds that I saw in my

garden within a 10 minute period, in order of occurrence. I will just add a bird

name whenever I see the bird. E.g. bluetit, bluetit, robin, blackbird, robin, bluetit

**LinkedList, as it'll allow the user to keep record of the birds in order of occurance**

**without changing the structure of the list regardless of duplicates.**

2. To keep a record of the English names of each type of bird that I have ever

seen in my garden. I just want names, in alphabetic order. I want to add a bird

whenever I see one. As the list grows, I might not remember whether a bird is

a new bird or one that I have already seen. E.g. blackbird, bluetit, robin, thrush

**TreeSet, more precisely SortedSet to automatically arrange the items in ascending order.**

**One problem that might cause is that it will not allow user to store duplicate items.**

3. As (2) above, but once I add the bird, I want to keep other details about that

type of bird (e.g. latin name, average lifespan) and I want to be able to look

them up by name. I don’t need them in any particular order.

**HashMap, and use the bird name as the key and the rest of the details into objects.**

4. As (3) above. What if I did want to print details in some order?

**TreeMap, and use the bird name as the key again but using TreeMap will also allow the user**

**to print details in any given order.**