Input/Output specifications for Assignment 2, question4

1. Your executable should be named `a2q4` taking zero parameters at the unix prompt. Your program should read from standard input and print to standard output. The following are the commands:

   `d x y`: perform DELETE(B,L), where L = (x, y).

   `a x y`: perform ADD(B,L), where L = (x, y).

   `h a b`: perform DISPLAYHEIGHT(B,a,b). If the operation is successful, print the max height with one single carriage return.

   The following is a sample input:

   ```
   d 1 2.5
   a 1 2
   a 2 3.34
   h 0 4
   h 5 6
   d 2 3
   ```

   The following is the output:

   ```
   3.34
   ```

   Note that the marker will be using a few shell scripts to autotest your program. For example, the marker should be able to do the following:

   ```
   a2q4 < inputfile > outputfile
   ```

   where the output is stored in the outputfile. Please try to follow the input and output specifications.

2. You are allowed to code your program in Java, C/C++. Make sure you can compile your code on fissure. If the marker cannot compile your code, you automatically lose all the autotesting part marks.

3. Please also provide a `Makefile` so that if the TA needs to test your code, he/she can compile your code quickly by typing `make a2q4` at the fissure command prompt. The following is a sample `Makefile`:

   ```
   # This is a sample "Makefile"
   CCC=g++ -ggdb
   OBJ=barchart.o main.o
   SRC=barchart.cc main.cc
   HEAD=barchart.h Makefile

   a2q4: $(OBJ)
   $(CCC) -o a2q4 main.o barchart.o

   $(OBJ): $(HEAD)
   ```

```
clean:
	rm -f core *.o a2q4
```

The above `Makefile` expects 4 files:

```
Makefile
main.cc
barchart.cc
barchart.h
```

When you type `make a2q4` at the unix prompt, `make` compiles `main.cc` and `barchart.cc` using `g++` with the `gdb` debug code included. The executable is `a2q4`.

For more information on `make`, see http://www.delorie.com/gnu/docs/make/ or type `man make` at the unix prompt.