Assignment 7

Add to the Contest program started in class
Save as Contest.java

Process the K0HC.LOG file as follows:
   Each QSO (contact) is worth 2 points.
   Multipliers = 83 (or calculate multipliers as shown below for additional credit)
   Total score = QSO points * multipliers

Create a report.txt file as follows:	Create a schools.txt file as follows:
--	---
K0HC.LOG Report	K0HC.LOG Schools Worked
A contacts	QSO line for each school goes here
B contacts	QSO line for each school goes here
M contacts	
U contacts	Total schools
Q contacts	---
S contacts	
80m contacts (3500)	Create an error.txt file as follows:
40m contacts (7000)	---
20m contacts (14000)	K0HC.LOG Error Report
15m contacts (21000)	
10m contacts (28000)	QSO line for each error goes here
	QSO line for each error goes here
Total contacts	QSO line for each error goes here
Multipliers	
Total score	Total errors
--	---

Create a TEST.LOG file to test your program. Be sure to test for each possible type of error.
After testing your program, run it with K0HC.LOG.
Since you were given the basic program format, an algorithm is optional.
Comment your program carefully.

Put Contest.java in your H:\CP1\Java\bookClasses folder by the due date.
There is nothing to hand in. This assignment will be graded online.

<u>Precedence</u>

A   low power
B   high power
Q   very low power
M   Multi-op
U   Unlimited
S   School

<u>Band   Frequency</u>

10m   28000 khz
15m   21000 khz
20m   14000 khz
40m   7000 khz
80m   3500 khz

<u>QSO format</u>

(A: alphabetic field, 9: numeric field)								9999	A	99	AAA
QSO: 14305 PH	2019-11-16 2100	K0HC	0001 S	97	KS	KI7Y	1	B	59	ORG
band mode date	time call	#	Prec Check Section	Call	#	Prec	Check	Section

<u>Optional multiplier calculation algorithm</u>

```
// Constants and Variables needed
MAX_SECTIONS = 83
String section
String sections[ ]  (to hold all possible sections)
boolean found
int countSections = 0

get the section

// see if section is already in sections array
found = false
for i=0 to countSections − 1
   if section == sections[ i ]
      found = true
end for

// if section isn't found, add it to the sections array
if not found
   sections[ countSections ] = section
   increment sectionCount
   print "Adding section" + section
end if
```

Note: Multiplier count will be the value of countSections or the length of the sections array.