

10.2 Write a program to read through the `mbox-short.txt` and figure out the distribution by hour of the day for each of the messages. You can pull the hour out from the 'From' line by finding the time and then splitting the string a second time using a colon.

```
From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008
```

Once you have accumulated the counts for each hour, print out the counts, sorted by hour as shown below.

Check Code**Reset Code**

```
1 name = input("Enter file:")
2 if len(name) < 1 : name = 'mbox-short.txt'
3 handle = open(name)
4 hr = list()
5 for line in handle:
6     if line.startswith('From'):
7         if len(line)>40:
8             sp = line.split()
9             lm = sp[5]
10            tim = lm.split(':')
11            hr.append(tim[0])
12
13 hr.sort()
14 msg = dict()
15 for hour in hr:
16     msg[hour] = msg.get(hour,0)+1
17
18 for k,v in msg.items():
19     print(k,v)
20 #print(msg)
21
```

Your Output**Desired Output**

```
04 3
06 1
07 1
09 2
10 3
11 6
14 1
15 2
16 4
17 2
18 1
19 1
```

Setting: [Hide editor](#) This software is based on [Skulpt](#) and [CodeMirror](#). The source code for this auto-grader is available on [GitHub](#).