

## Admission Price

[12 marks] Consider a tourist attraction that has the following admission prices:

Babies (2 years old and under): \$1.00  
Children (3 to 12 years old): \$5.00  
Seniors (65 years old or more): \$8.00  
All other guests: \$12.50

Create a program that reads the ages of all of the guests in a group visiting the attraction and reports the total admission cost for the group once all of the ages have been entered. The cost should be formatted so that exactly two digits appear to the right of the decimal point.

Each age will be entered on its own line. An error message should be displayed if the entered age is less than 0 (and nothing should be added to the total), but then the program should go on and read and process additional ages. A blank line will be used to indicate that no further ages will be entered and the total should be displayed. Your program should display a total of \$0.00 if the first value entered by the user is a blank line.

Use the following lines to create your solution. Lines can be used multiple times. Some lines may not be needed.

```
1: age = int(age)
2: age = int(input("Enter the guest's age: "))
3: age = input("Enter the guest's age: ")
4: elif age <= "12":
5: elif age <= "64":
6: elif age <= 12:
7: elif age <= 64:
8: else:
9: if age <= "2":
12: if age <= 2:
13: if age >= "0":
14: if age >= 0:
15: print("That wasn't a valid age.")
16: print("Total cost for group: $%.2f" % total)
17: total = ""
18: total = 0.00
19: total = total + "1"
23: total = total + "12.5"
24: total = total + "5"
25: total = total + "8"
26: total = total + 1
27: total = total + 12.5
28: total = total + 5
29: total = total + 8
34: while age != "":
35: while age >= 0:
```

Sample Run #1:

Enter the guest's age: **1**

Enter the guest's age: **7**

Enter the guest's age: **44**

Enter the guest's age: **86**

Enter the guest's age:

Total cost for group: \$26.50

Sample Run #2:

Enter the guest's age: **2**

Enter the guest's age: **12**

Enter the guest's age: **65**

Enter the guest's age:

Total cost for group: \$14.00

Sample Run #3:

Enter the guest's age: **22**

Enter the guest's age:

Total cost for group: \$12.50

Sample Run #4:

Enter the guest's age: **-65**

That wasn't a valid age.

Enter the guest's age:

Total cost for group: \$0.00