

CS1133, Spr 2018, HW 6 (Lect 13, Pts=40)

Due March 20, 2018 (before 11:00 pm)

Problem 1 [40 pts]

Write a program to compute the cost of an airline ticket which has a full fare of \$400. The pricing rules are:

- Anyone older than 15 year of age is considered an adult and pays full fare except for senior citizens.
- Senior citizens 65 and over have a 10% discount.
- An infant less than 2 years old flies free but has no seats. One can assume that an infant less than 2 years of age will not travel alone.
- Anyone between the age of 2 and 15 is considered a child and has a 20% discount.
- No children younger than 5 years old can fly unaccompanied by an adult.
- A child older than 5 years of age can fly alone but is charged an unaccompanied-minor fee of \$100.

The costs are for a round-trip flight. Here are 6 examples of running such a program (boldface fonts are used for inputs into the program):

```
Welcome to Dirt-Cheap-Tickets.  
Age = 4  
Enter 1 if traveling alone, otherwise enter 0: 1  
Cannot travel alone!  
You will be charged a total of $0  
Thanks for visiting Dirt-Cheap-Tickets.
```

```
Welcome to Dirt-Cheap-Tickets.  
Age = 16  
You will be charged a total of $400  
Thanks for visiting Dirt-Cheap-Tickets.
```

```
Welcome to Dirt-Cheap-Tickets.  
Age = 6  
Enter 1 if traveling alone, otherwise enter 0: 1
```

You have a 20% off the full fare.
You need to pay an extra unaccompanied-minor fee of \$100.
You will be charged a total of \$420
Thanks for visiting Dirt-Cheap-Tickets.

Welcome to Dirt-Cheap-Tickets.
Age = 78
You have a 10% off the full fare.
You will be charged a total of \$360
Thanks for visiting Dirt-Cheap-Tickets.

Welcome to Dirt-Cheap-Tickets.
Age = 1
No seat: must sit on the lap of an adult.
You will be charged a total of \$0
Thanks for visiting Dirt-Cheap-Tickets.

Welcome to Dirt-Cheap-Tickets.
Age = 6
Enter 1 if traveling alone, otherwise enter 0: 0
You will be charged a total of \$320
Thanks for visiting Dirt-Cheap-Tickets.