Assignment 6

- 1. (70 points) Write a program that will compute/display the price of a fair ticket based on the following. You must use the strategy design pattern to do this. You must have both the class diagram and java code for this. My solution has 8 classes plus the test (main). I expect yours to have the same. Submit the source code and a picture of your output
 - a) Child ticket (under 16) \$10
 - b) Senior ticket (over 64) \$15 (if have AARP membership 20% off)
 - c) Adult ticket \$20 (if in the military 10% off)

```
k57h721@GSC-NAH253C-01 ~/esof322/strategytkt
$ java TicketTest 10
There is no discount for this ticket
This child's ticket will cost $10.00
k57h721@GSC-NAH253C-01 ~/esof322/strategytkt
 java TicketTest 70 no
There is no discount for this ticket
This senior ticket will cost $15.00
<57h721@GSC-NAH253C-01 ~/esof322/strategytkt</pre>
$ java TicketTest 70 yes
This ticket has a 20% discount
This senior ticket will cost $12.00
<57h721@GSC-NAH253C-01 ~/esof322/strategytkt</pre>
$ java TicketTest 23 no
There is no discount for this ticket
This adult ticket will cost $20.00
<57h721@GSC-NAH253C-01 ~/esof322/strategytkt</pre>
$ java TicketTest 23 yes
This ticket has a 10% discount
This adult ticket will cost $18.00
```

- 2. (30 points) Read the academic paper Group Think in Software Engineering (in d2l homework folder). Answer these 2 questions:
 - a) What is group think?
 - b) What are the characteristics/results of group think in software engineering groups or teams?
 - c) What are some methods for addressing group think?

Due Date: Sunday, 3/31 at 11pm in d2l – assignment 6 folder

Each student will complete and submit this assignment individually. The TA will check for plagerism. No late assignments will be accepted.

Rubric

- For 1:
 - 20 pts provided class diagram with enough classes to properly implement the strategy design pattern
 - o 30 pts provided code that matches class diagram
 - 20 pts provided screenshot of code successfully running 4 times with 1) age is
 10, 2) age is 70, 3) age is 45, not in military, 4) age is 30, in military
- For 2: Submit as a separate file
 - o 30 pts you answered all the questions in a thoughtful way, showing that you understand the material you read. You can use bullets, a paragraph, etc to answer these questions. There are no rules on the format for answering.