Computer Science 2

Fall 2017 – Dr. Gurka Project #2 – What’s My Grade?

August 28 Test Plan

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Tester:

Create more test cases, one with 100 semester points and the others with various maximums (which could be more than 100 points.). Each must have a different pattern of answers. Note that the test plan shows answers but not report format.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **test**  **case** | **possible**  **points**  **so far**  (input) | **student points**  **so far**  (input) | **max**  **semester points**  (input) | **points**  **remaining**  (calculated) | **A**  (report) | **B**  (report) | **C**  (report) | **D**  (report) | **F**  (report) | **OK?** |
| 1: “normal” grading scheme, 100 points maximum | 80 | 72 | 100 | 20 | possible:  18 pts. needed | possible:  8 pts. needed | guaranteed | N/A | N/A |  |
| 2: student currently failing | 50 | 28 | 100 | 50 | impossible | impossible | possible  42 pts. needed | possible  32 pts. needed | guaranteed |  |
| 3: student can’t pass | 70 | 34 | 75 | 5 | impossible | impossible | impossible | impossible | guaranteed & failure message |  |
| 4: Student with Extra Credit, doing well | 70 | 85 | 100 | 30 | possible:  5 pts. needed | guaranteed | N/A | N/A | N/A |  |
| 5: Start of Course. Student hasn’t shown first days. Double test case pts. Can still pass. | 20 | 0 | 200 | 180 | possible:  180 pts. needed | possible:  160 pts. needed | possible:  140 pts. needed | possible:  120 pts. needed | guaranteed |  |
| 6: Guaranteed A. Double test case pts. | 95 | 90 | 100 | 5 | guaranteed | N/A | N/A | N/A | N/A |  |
| Dan Reuter:  Day 1 of Semester | 0 | 0 | 100 | 100 | Possible 90pts needed | Possible 80pts needed | Possible 70pts needed | Possible 60pts needed | guaranteed |  |
| Dan Reuter:  Over the Limit? | 130 | 160 | 150 | 20 | guaranteed | N/A | N/A | N/A | N/A |  |
| Dan Reuter:  ‘That’ Student at the second to last day | 45 | 42 | 50 | 5 | Possible 3pts needed | guaranteed | N/A | N/A | N/A |  |
| Zachary Anguiano:  Student will inevitably pass with an A | 80 | 79 | 85 | 1 | guaranteed | N/A | N/A | N/A | N/A |  |
| Zachary Anguiano:  Student can’t get more than a C | 60 | 36 | 90 | 30 | impossible | Impossible | Possible 27pts needed | guaranteed | guaranteed |  |
| Zachary Anguiano:  Student currently has a B…but if no further work, will have a C | 70 | 60 | 80 | 10 | impossible | Possible 4pts needed | guaranteed | N/A | N/A |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Sean Smith:  Student can pass | 60 | 52 | 100 | 40 | Possible 38pts needed | Possible 28pts needed | Possible 18pts needed | Possible 8pts needed | guaranteed |  |
| Sean Smith:  Student has passed | 70 | 70 | 100 | 30 | Possible 20pts needed | Possible 10pts needed | guaranteed | N/A | N/A |  |
| Sean Smith:  Student can pass | 50 | 25 | 200 | 150 | impossible | Possible 135pts needed | Possible 115pts needed | Possible 95pts needed | guaranteed |  |
| Sean Smith:  Student has failed | 80 | 20 | 100 | 20 | impossible | impossible | Impossible | impossible | guaranteed |  |
| Sean Smith:  Student can pass | 40 | 30 | 100 | 60 | Possible 60pts needed | Possible 50pts needed | Possible 40pts needed | Possible 30pts needed | guaranteed |  |
| Sean Smith:  Student has failed | 350 | 200 | 400 | 50 | impossible | impossible | impossible | Possible 40pts needed | guaranteed |  |