Question 1) make DD graph for the 2 function

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For CreditStatus:

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|  |  |  |
| --- | --- | --- |
| Program Graph(Line number) | DD-Chain Name | Case # |
| 65 | Start | 1 |
| 67 | A | 5 |
| 68 | B | 4 |
| 69 | C | 5 |
| 70 | D | 4 |
| 71 | E | 4 |
| 72 | F | 4 |
| 73 | G | 3 |
| 74 | H | 4 |
| 75 | I | 4 |
| 76 | End | 2 |

DD Graph

Diagram

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For product Status:

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|  |  |  |
| --- | --- | --- |
| Program Graph(Line number) | DD-Chain Name | Case # |
| 79 | Start | 1 |
| 80 | A | 3 |
| 81 | B | 5 |
| 82 | C | 4 |
| 83 | D | 5 |
| 84 | E | 4 |
| 85 | F | 5 |
| 86 | G | 4 |
| 87 | H | 4 |
| 90 | I | 4 |
| 91 | End | 2 |

DD graph:

Diagram

Description automatically generated

Q2

creditStatus: Statement/Edge coverage

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | clientAccount | creditCheckMode | Expected | Test path |
| 1 | {creditScore:-1} | restricted | Not-allowed | Start, A,B,End |
| 2 | {creditScore:101} | restricted | Not-allowed | Start, A,B,End |
| 3 | {creditScore:40} | restricted | low | Start, A,C,D,G,I,End |
| 4 | {creditScore:50} | restricted | High | Start, A,C,D,G,H,End |
| 5 | {creditScore:50} | default | Low | Start, A,C,E,F,G,I,End |
| 6 | {creditScore:80} | default | high | Start, A,C,E,F,G,H,End |
| 7 | {creditScore:-1} | default | Not-allowed | Start, A,B,End |
| 8 | {creditScore:101} | default | Not-allowed | Start, A,B,End |
| 9 | {creditScore:50} | Something(Neither restricted/default) | low | Start,A,C,E,G,I,End |

productStatus:Statement/Edge coverage

(Note that: the code is wrong on F meaning the limited/available are flipped. For this DD coverage, we are assuming that F is correct meaning G and H will not be correct)Table

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | product | inventory | Inventory Threshold | Expected | Test path |
| 9 | Apple | [] | 100 | Invalid | Start, A,I,End |
| 10 | Apple | [{‘name’: ‘banana’, ‘q’:50}] | 100 | Invalid | Start, A,B,A,I,End |
| 11 | Apple | [{‘name’: ‘apple, ‘q’:0}] | 100 | Soldout | Start, A,B,C,D,E,End |
| 12 | Apple | [{‘name’: ‘apple, ‘q’:500}] | 100 | Available-to-all | Start, A,B,C,D,F,H,End |
| 13 | Apple | [{‘name’: ‘apple, ‘q’:100}] | 150 | Limited | Start, A,B,C,D,F,G,End |
| 14 | Banana | [{‘name’: ‘apple, ‘q’:100},{‘name’: ‘banana’, ‘q’:0}] | 100 | Soldout | Start, A,B,A,B,C,D,E,End |
| 15 | Banana | [{‘name’: ‘apple, ‘q’:100},{‘name’: ‘banana’, ‘q’:500}] | 200 | Available-to-all | Start, A,B,A,B,C,D,F,H,End |
| 16 | Banana | [{‘name’: ‘apple, ‘q’:500},{‘name’: ‘banana’, ‘q’:100}] | 150 | Limited | Start, A,B,A,B,C,D,G,H,End |

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A screenshot of a computer

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The results were disappointing but after commenting out the functions not require for testing, the stats is a lot better.

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