

## all files / genny/ purchaseOrder.js

100% Statements 83/83 100% Branches 107/107 100% Functions 7/7 100% Lines 77/77

```

1   1x  var getAgeFactor = function(account) {
2   61x    var factor;
3   61x    var account = account || {};
4   61x    if (account.age < 0 || account.age > 100)
5     9x      factor = -1;
6   52x    else if (account.age == 0)
7     1x      factor = 1;
8   51x    else if (account.age < 2)
9     5x      factor = 5;
10  46x    else if (account.age >= 2 && account.age < 5)
11  13x      factor = 10;
12  33x    else if (account.age >= 5 && account.age < 10)
13   6x      factor = 20;
14  27x    else if (account.age >= 10 && account.age <= 100)
15  26x      factor = 50;
16  61x    return factor;
17      }
18
19   1x  var getBalanceFactor = function(account) {
20  70x    var factor;
21  70x    var account = account || {};
22  70x    if (account.balance < -100 || account.balance > 1000000000)
23   4x      factor = -1;
24  66x    else if (account.balance >= -100 && account.balance <= 0)
25   5x      factor = 6;
26  61x    else if (account.balance > 0 && account.balance < 1000)
27  17x      factor = 16;
28  44x    else if (account.balance >= 1000 && account.balance < 50000)
29  19x      factor = 30;
30  25x    else if (account.balance >= 50000 && account.balance < 100000)
31   4x      factor = 70;
32  21x    else if (account.balance >= 100000 && account.balance <= 1000000)
33  11x      factor = 200;
34  10x    else if (account.balance > 1000000)
35   9x      factor = 500;
36
37  70x    return factor;
38      }
39
40   1x  var AccountStatus = function(account) {
41  48x    var ageFactor = getAgeFactor(account);
42  48x    var balanceFactor = getBalanceFactor(account);
43  48x    var accountFactor = ageFactor * balanceFactor;
44
45  48x    if (accountFactor < 0) { return "invalid" }
46  39x    if (accountFactor >= 0 && accountFactor <= 700) { return "poor"; }
47  26x    if (accountFactor > 700 && accountFactor <= 3000) { return "fair"; }
48  10x    if (accountFactor > 3000 && accountFactor <=10000) { return "good" }
49   3x    return "very good";
50      }
51
52   1x  var creditStatus = function(client, creditCheckMode) {
53  37x    var threshold;
54  37x    if (client.credit < 0 || client.credit > 800)
55   3x      return "invalid";
56

```

```
57 34×   if (creditCheckMode === "strict")
58 29×     threshold = 750;
59 5×     else if (creditCheckMode === "default")
60 3×       threshold = 700;
61 2×     else return "invalid";
62
63 32×   if (client.credit < threshold)
64 13×     return "bad";
65 19×   else return "good";
66   }
67
68 1×   var productStatus = function(product, store, storeThreshold) {
69 34×     var quantity = 0;
70 34×     store.forEach(function (storeItem) {
71 102×       if (product === storeItem.name) {
72 19×         quantity = storeItem.q;
73       }
74     });
75
76 34×     if (quantity === 0) { return "soldout"; }
77 19×     if (quantity < storeThreshold) { return "limited"; }
78 10×     return "available";
79   }
80
81 1×   var orderHandling = function(client, product, store, storeThreshold, creditCheckMode) {
82
83 15×     var aStatus = AccountStatus(client);
84 15×     var cStatus = creditStatus(client, creditCheckMode);
85 15×     var pStatus = productStatus(product, store, storeThreshold);
86
87 15×     if (aStatus === "invalid" || cStatus === "invalid")
88 2×       return "invalid";
89
90 13×     if ((aStatus === "very good") || (aStatus === "good" && cStatus ===
91       "good") ||
92       (aStatus !== "good" && cStatus === "good" && pStatus === "available"))
93 4×       return "accepted";
94
95 9×     else if ((aStatus === "good" && cStatus === "bad") || (aStatus === "fair" &&
96       cStatus === "bad" &&
97       pStatus === "available"))
98 2×       return "underReview";
99
100 7×     else if ((aStatus === "fair" && cStatus === "good" && productStatus !== "available") ||
101       (aStatus === "poor" && cStatus === "good" && pStatus === "limited"))
102 3×       return "pending";
103
104 4×     return "rejected"
105   }
106
107 1×   module.exports = {
108     getAgeFactor,
109     getBalanceFactor,
110     AccountStatus,
111     creditStatus,
112     productStatus,
113     orderHandling
114   };
115
```

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