

# 1 Assignment1 Order System Pseudocode

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1:  $A\_code \leftarrow [A \text{ items' codes}]$ 
2:  $A\_name \leftarrow [A \text{ items' names}]$ 
3:  $A\_price \leftarrow [A \text{ items' prices}]$ 
4:  $B\_code \leftarrow [B \text{ items' codes}]$ 
5:  $B\_name \leftarrow [B \text{ items' names}]$ 
6:  $B\_price \leftarrow [B \text{ items' prices}]$ 
7:  $C\_code \leftarrow [C \text{ items' codes}]$ 
8:  $C\_name \leftarrow [C \text{ items' names}]$ 
9:  $C\_price \leftarrow [C \text{ items' prices}]$ 
10:  $S\_code \leftarrow [S \text{ items' codes}]$ 
11:  $S\_name \leftarrow [S \text{ items' names}]$ 
12:  $S\_price \leftarrow [S \text{ items' prices}]$ 
13:  $S\_inclu \leftarrow [Items \text{ that each setmeal contains}]$ 
14:
15:  $S5 \leftarrow ""$ 
16: function INIT( $count[]$ )
17:   initial each elemet of  $count[]$  is 0
18:   print 7-23 welcome message
19: end function
20:
21: function MENU()
22:   print menu
23: end function
24:
25: function COMBINATION_S5()
26:    $item \leftarrow 0$ 
27:   prompt users choose Coffee(1) or Tea(3)
28:   input item
29:   check input
30:   prompt users choose Quiche(4) or Pie(5)
31:   check input
32:    $item \leftarrow item + input$ 
33:   return item
34: end function
35:
36: function PACKAGE( $price, count[], S5$ )
37:    $set\_count \leftarrow numbers \text{ that can be packages as set4}$ 
38:    $price \leftarrow price - difference \text{ of prices}$ 
39:    $count[have \text{ been packaged}] \leftarrow count[have \text{ been packaged}] - set\_count$ 
40:
41:    $set\_count \leftarrow numbers \text{ that can be packages as set2}$ 
42:    $price \leftarrow price - difference \text{ of prices}$ 
43:    $count[have \text{ been packaged}] \leftarrow count[have \text{ been packaged}] - set\_count$ 
44:
45:    $set\_count \leftarrow numbers \text{ that can be packages as set5(Coffee + Quiche)}$ 
46:    $price \leftarrow price - difference \text{ of prices}$ 
47:    $count[have \text{ been packaged}] \leftarrow count[have \text{ been packaged}] - set\_count$ 
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48:   if set_count > 0 then
49:       S5  $\leftarrow$  ' 6'
50:   end if
51:
52:   set_count  $\leftarrow$  numbers that can be packages as set3
53:   price  $\leftarrow$  price - difference of prices
54:   count[have been packaged]  $\leftarrow$  count[have been packaged] - set_count
55:
56:   set_count  $\leftarrow$  numbers that can be packages as set5(Tea + Quiche)
57:   price  $\leftarrow$  price - difference of prices
58:   count[have been packaged]  $\leftarrow$  count[have been packaged] - set_count
59:   if set_count > 0 then
60:       S5  $\leftarrow$  ' 7'
61:   end if
62:
63:   set_count  $\leftarrow$  numbers that can be packages as set5(Tea + Pie)
64:   price  $\leftarrow$  price - difference of prices
65:   count[have been packaged]  $\leftarrow$  count[have been packaged] - set_count
66:   if set_count > 0 then
67:       S5  $\leftarrow$  ' 8'
68:   end if
69:   return price
70: end function
71:
72: function PRINT_ORDER(ois, price, count[], S5)
73:   print ois's order's total price
74:   for i = 0  $\rightarrow$  15 do
75:       if count[i]! = 0 then
76:           print ith item's name, number and total price
77:       end if
78:   end for
79:   for i = 0  $\rightarrow$  count[15] do
80:       if S5[i - 1] -' 0' is 5 then
81:           print ith S5 is "Coffee+Quiche"
82:       end if
83:       if S5[i - 1] -' 0' is 6 then
84:           print ith S5 is "Coffee+Pie"
85:       end if
86:       if S5[i - 1] -' 0' is 7 then
87:           print ith S5 is "Tea+Quiche"
88:       end if
89:       if S5[i - 1] -' 0' is 8 then
90:           print ith S5 is "Tea+Pie"
91:       end if
92:   end for
93: end function
94:
95: function EDIT_ORDER(count[])
96:   prompt users input item's code that needed to be deleted
97:   order0  $\leftarrow$  item's code that needed to be deleted

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98:   check input
99:    $count[deleted] \leftarrow count[deleted] - 1$ 
100:  if sum of count[] not =0 then
101:      prompt users input command code that decide whether delete another item
102:      input command code
103:      check input
104:      decide whether delete another item based on command code
105:  end if
106: end function
107:
108: function MAIN()
109:   INIT(count)
110:    $S5 \leftarrow ""$ 
111:   prompt users input sytem command code that decide whether exit system or start ordering
112:   input system command
113:   check input
114:   decide whether exit system or start ordering based on system command code
115:   prompt users input ois
116:   whether ois's length  $\leq 40$ 
117:   MENU()
118:   prompt users select one item from the food menu using item code
119:   input item code
120:   check input
121:    $count[selected\ item] \leftarrow count[selected\ item] + 1$ 
122:   prompt users input command code that decide order new item, edit order or go to check out
123:   input command code
124:   check input
125:   if command code=0 then
126:       go to check out
127:   end if
128:   if command code=1 then
129:       go to order new item
130:   end if
131:   if command code=0 then
132:       EDIT_ORDER(count)
133:   end if
134:   for  $i = 0 \rightarrow count[15]$  do
135:        $price \leftarrow price + count[i] * ith\ item's\ price$ 
136:   end for
137:    $price \leftarrow PACKAGE(price, count, S5)$ 
138:   PRINT_ORDER(ois, price, count, S5)
139:   prompt users input command code that decide whether start new order
140:   input command code
141:   check input
142:   decide whether start new order based on command code
143: end function

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