```
In [1]: import pandas as pd
          orders_df=pd.DataFrame({"order_id":[1,2,3],"item":["pens","shirts","coffee"]})
          {\tt orders\_df}
            order_id item
 Out[1]:
                  1 pens
                  2 shirts
                  3 coffee
         orders1_df=pd.DataFrame({"order_id":[4,5,6],"item":["crayons","tea","fruits"]})
          orders1_df
 Out[2]:
            order_id
                       item
                  4 crayons
                        tea
          2
                  6
                      fruits
         customers_df=pd.DataFrame({"order_id":[1,2,3],"customer_name":["anne","ben","carlos"]})
          customers_df
            order_id customer_name
 Out[3]:
                  1
                             anne
         1
                  2
                              ben
                  3
                             carlos
         fullorders_df=pd.concat((orders_df,orders1_df),ignore_index=True)
          fullorders_df
            order\_id
 Out[4]:
                       item
                  1
                       pens
                  2
                      shirts
                      coffee
                  4 crayons
                        tea
                      fruits
         orders_df.set_index("order_id",inplace=True)
          orders_df
                   item
 Out[5]:
          order_id
               1 pens
               2 shirts
               3 coffee
 In [6]: customers_df.set_index("order_id",inplace=True)
          customers_df
 Out[6]:
                  customer_name
          order_id
                           anne
                            ben
         question 2 start
         data=pd.DataFrame({"Anna":[51.0,52.0,51.4,52.8,50.5], "Ben":[70.0,70.5,69.1,69.8,70.5], "Carole":[64.0,64.2,66.8,66.0,63.4], "Dave":[81.0,81.3,80.5,80.9,81.4]})
          data
            Anna Ben Carole Dave
 Out[7]:
          0 51.0 70.0
                        64.0 81.0
          1 52.0 70.5
                        64.2 81.3
             51.4 69.1
                        66.8 80.5
          3 52.8 69.8
                        66.0 80.9
             50.5 70.5
                        63.4 81.4
          data.melt()
 In [8]:
             variable value
 Out[8]:
                      51.0
               Anna
               Anna
                      52.0
               Anna
                      51.4
               Anna
                      52.8
                      50.5
                Anna
                Ben
                      70.0
           6
                      70.5
                Ben
                Ben
                      69.1
           8
                      69.8
                Ben
                Ben
                      70.5
                      64.0
          10
               Carole
          11
               Carole
                      64.2
          12
               Carole
                      66.8
          13
               Carole
                      66.0
                      63.4
          14
               Carole
          15
               Dave
                      81.0
                      81.3
          16
               Dave
          17
                Dave
                      80.5
                      80.9
          18
               Dave
          19
               Dave 81.4
 In [9]:
          data.melt().groupby("variable")["value"].var().sort_values()[:1]
          variable
 Out[9]:
                  0.127
         Dave
          Name: value, dtype: float64
          data.mean()
In [10]:
          Anna
                    51.54
Out[10]:
                    69.98
          Ben
                    64.88
          Carole
         Dave
                    81.02
         dtype: float64
In [11]: (data[list(data.mean()[data.mean()<65].index)]*2.205).round(2)</pre>
            Anna Carole
         0 112.46 141.12
         1 114.66 141.56
          2 113.34 147.29
          3 116.42 145.53
          4 111.35 139.80
In [ ]:
```