

Math Practice – (Packed Arithmetic)

200 Points

Data Records Input: CSU.PUBLIC.DATA(DATAPRG&PROG)

CC 11 – 30 Item Name

CC 31 – 35 Item Price (3v2)

CC 41 – 45 Item Quantity (5v0)

Write an IBM Assembler program that will read in the records, validate that the variables are numeric, skip any bad records, and calculate the Cost (Quantity * Price) and print a report in the format shown below.

Use subroutines about a screen in length! The total line is the sum of the Quantities and Costs. The quantity on the average line is the Total quantity divided by the number of line items. The Average cost is the Total cost divided by number of line items. Both averages will be accurate to two decimals! (Need three decimals calculated so you can round off one!)

Report Output Sample Format:

| Sales Report Summary - (QQ) Your Name | | | |
|---------------------------------------|------------|--------|----------------|
| Name | Quantity | Price | Cost |
| Xbox 360 | 5.00 | 223.99 | 1,119.95 |
| PlayStation IV | 6.00 | 393.91 | 2,363.46 |
| Assassin's Creed IV | 2.00 | 34.99 | 69.98 |
| Grand Theft Auto V | 6.00 | 39.95 | 239.70 |
| Yoshi's Island | 7.00 | 59.95 | 419.65 |
| Pong | 5.00 | 9.95 | 49.75 |
| Rubber Grommet | 6.00 | 0.01 | 0.06 |
| Grand Theft Auto V | 3.00 | 39.95 | 119.85 |
| Grand Theft Auto V | 3.00- | 39.95 | 119.85- |
| MS VR Experimental | 99,999.00 | 999.99 | 99,998,000.01 |
| Totals | 100,036.00 | | 100,002,262.56 |
| Averages | 10,003.60 | | 10,000,226.26 |