

CS108 Bash Grader Testcases and Explanation

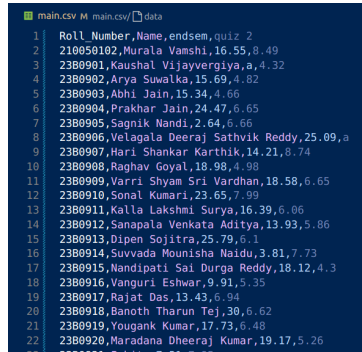
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April 28, 2024

1 Initialize

Running the following command initializes 4 csv files with random data and combines some of this data into main.csv.

```
python3 initialize.py
```



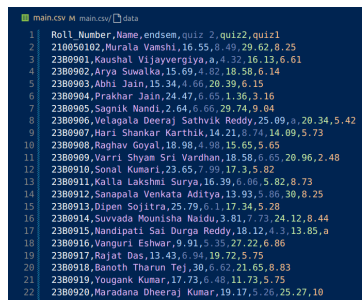
```
main.csv M main.csv data
1 Roll_Number,Name,endsem,quiz 2
2 210050102,Murala Vamshi,16.55,8.49
3 2380901,Kaushal Vijayvergiya,a,4.32
4 2380902,Arya Suwalka,15.09,4.82
5 2380903,Abhi Jain,15.34,4.66
6 2380904,Prakhar Jain,24.47,6.65
7 2380905,Sagnik Nandi,2.64,6.66
8 2380906,Velagala Deeraj Sathvik Reddy,25.09,a
9 2380907,Hari Shankar Karthik,14.21,8.74
10 2380908,Raghav Goyal,18.98,4.98
11 2380909,Varri Shyam Sri Vardhan,18.58,6.65
12 2380910,Sonal Kumari,23.65,7.99
13 2380911,Kalla Lakshmi Surya,16.39,6.06
14 2380912,Sanapala Venkata Aditya,13.93,5.86
15 2380913,Dipen Sojitra,25.79,6.1
16 2380914,Suvvada Mounisha Maidu,3.81,7.73
17 2380915,Nandipati Sai Durga Reddy,18.12,4.3
18 2380916,Vanguri Eshwar,9.91,5.35
19 2380917,Rajat Das,13.43,6.94
20 2380918,Banoth Tharun Tej,30.6,6.62
21 2380919,Yougank Kumar,17.73,6.48
22 2380920,Maradana Dheeraj Kumar,19.17,5.26
```

Figure 1: main.csv after Initializing

2 Combine

Running the following command combines the data from 4 csv files into main.csv.

```
bash submission.sh combine
```



```
main.csv M main.csv data
1 Roll_Number,Name,endsem,quiz 2,quiz1,quiz2
2 210050102,Murala Vamshi,16.55,8.49,29.62,8.25
3 2380901,Kaushal Vijayvergiya,a,4.32,16.13,6.61
4 2380902,Arya Suwalka,15.09,4.82,18.58,6.14
5 2380903,Abhi Jain,15.34,4.66,20.39,6.15
6 2380904,Prakhar Jain,24.47,6.65,1.36,3.16
7 2380905,Sagnik Nandi,2.64,6.66,29.74,9.04
8 2380906,Velagala Deeraj Sathvik Reddy,25.09,a,20.34,5.42
9 2380907,Hari Shankar Karthik,14.21,8.74,14.09,5.73
10 2380908,Raghav Goyal,18.98,4.98,15.65,5.65
11 2380909,Varri Shyam Sri Vardhan,18.58,6.65,20.96,2.48
12 2380910,Sonal Kumari,23.65,7.99,17.3,5.82
13 2380911,Kalla Lakshmi Surya,16.39,6.06,5.82,8.73
14 2380912,Sanapala Venkata Aditya,13.93,5.86,30.8,25
15 2380913,Dipen Sojitra,25.79,6.1,17.34,5.28
16 2380914,Suvvada Mounisha Maidu,3.81,7.73,24.12,8.44
17 2380915,Nandipati Sai Durga Reddy,18.12,4.3,13.85,a
18 2380916,Vanguri Eshwar,9.91,5.35,27.22,6.86
19 2380917,Rajat Das,13.43,6.94,19.72,5.75
20 2380918,Banoth Tharun Tej,30.6,6.62,21.65,8.83
21 2380919,Yougank Kumar,17.73,6.48,11.73,5.75
22 2380920,Maradana Dheeraj Kumar,19.17,5.26,25.27,10
```

Figure 2: main.csv after combining all 4

You can specify files to drop by passing them as arguments to the script.

```
bash submission.sh combine --drop quiz1.csv "quiz 2.csv"
bash submission.sh combine -d quiz1.csv "quiz 2.csv"
```

You can selectively combine back certain quizzes alone by passing them as arguments before any other flag.

Roll Number	Name	endsem	quiz1	quiz 2
210050102	Murala Vanshi	16.55	29.62	
23009901	Koushal Vijayvergiya	16.13	4.32	
23009902	Arya Suwalka	15.69	18.58	
23009903	Abhi Jain	15.34	20.39	
23009904	Prakhar Jain	24.47	1.36	
23009905	Sagnik Nandi	2.64	29.74	
23009906	Velapala Deeroj Sathvik Reddy	25.09	20.34	
23009907	Hari Shankar Karthik	14.21	14.09	
23009908	Raghav Goyal	18.98	15.65	
23009909	Varri Shyam Sri Vardhan	18.58	20.96	
23009910	Sonal Kumari	23.65	17.3	
23009911	Kalla Lakshmi Surya	16.39	5.82	
23009912	Sanapala Venkata Aditya	13.93	30	
23009913	Dipen Sojitra	25.79	17.34	
23009914	Suvvada Mounisha Naidu	3.81	24.12	
23009915	Nandipati Sai Durga Reddy	18.12	13.85	
23009916	Vanguri Eshwar	9.91	27.22	
23009917	Rajat Das	13.43	19.72	
23009918	Sanath Tharun Tej	30.21	6.66	
23009919	Yousank Kumar	17.73	11.73	
23009920	Maradana Dheeraj Kumar	19.17	25.27	

Figure 3: main.csv after dropping quiz1.csv and quiz 2.csv

```
bash submission.sh combine quiz1.csv
```

Roll Number	Name	endsem	quiz1	quiz 2
210050102	Murala Vanshi	16.55	29.62	8.49
23009901	Koushal Vijayvergiya	16.13	4.32	
23009902	Arya Suwalka	15.69	18.58	4.82
23009903	Abhi Jain	15.34	20.39	4.66
23009904	Prakhar Jain	24.47	1.36	6.65
23009905	Sagnik Nandi	2.64	29.74	6.66
23009907	Hari Shankar Karthik	14.21	14.09	8.74
23009908	Raghav Goyal	18.98	15.65	4.98
23009909	Varri Shyam Sri Vardhan	18.58	20.96	6.65
23009910	Sonal Kumari	23.65	17.3	7.99
23009911	Kalla Lakshmi Surya	16.39	5.82	6.06
23009912	Sanapala Venkata Aditya	13.93	30	5.86
23009913	Dipen Sojitra	25.79	17.34	6.1
23009914	Suvvada Mounisha Naidu	3.81	24.12	7.73
23009915	Nandipati Sai Durga Reddy	18.12	13.85	4.3
23009916	Vanguri Eshwar	9.91	27.22	5.35
23009917	Rajat Das	13.43	19.72	6.94
23009918	Sanath Tharun Tej	30.21	6.66	6.62
23009919	Yousank Kumar	17.73	11.73	6.48
23009920	Maradana Dheeraj Kumar	19.17	25.27	5.26
23009921	Ishita	7.31	22.14	7.95

Figure 4: main.csv after combining quiz 2.csv

Generally, combine does not recheck or recombine quizzes which already have a column assigned to them in main.csv, and whose first 3 lines of data are valid marks. Use the `-force` flag to combine them.

```
bash submission.sh combine quiz1.csv quiz2.csv "quiz 2.csv" --force
```

Note here that endsem.csv is actually lost from main, since both the `force_flag` and the `only_flag` are true and endsem.csv is not amongst the list of quizzes to only add to main.

```

main.csv M main.csv data
1 Roll Number,Name,quiz1,quiz2,quiz 2
2 2381053,Aditi Singh,3.69,27.17,6.45
3 2380912,Sanapala Venkata Aditya,8.25,39.5,86
4 2380960,J Adarsh,6.8,17.05,8.65
5 2380975,Menda V Venkata Harsha Vardhan,5.55,15.28,10
6 2380972,Komarapu Vivek Vardhan,3.13,13.9,7.86
7 2381077,Bhavya Bansal,2.59,17.48,5.6
8 2380949,Kanyak Channa,6.69,17.75,8.16
9 2381081,Rishi Kalra,7.46,26.74,7.11
10 2381036,Duggineni Venkata Yugesh,8.45,16.66,6.52
11 2380989,Gaurav Kumar,4.84,14.87,8.66
12 2380978,Priyanshu Kumar,5.6,7.46,4.71
13 2380905,Sagnik Nandi,9.04,29.74,6.66
14 2380976,Gowda Charishma,6.86,15.25,10
15 2380915,Nandipati Sai Durga Reddy,a,13.85,4.3
16 2381051,Aman Nehra,6.8,20.22,4.68
17 2381040,B Shashank,1.75,20.13,3.44
18 2380993,Aakash Gupta,5.06,13.68,7.4
19 2380907,Hari Shankar Karthik,5.73,14.89,8.74
20 2380985,Jashanpreet Singh,9.47,9.37,9.65
21 2380952,Punumalli Lohit Adhitya Sai,10,17.36,4.24
22 2380931,Harish Gupta,5.31,15.6,5.3

```

Figure 5: main.csv after combining all but endsem with force