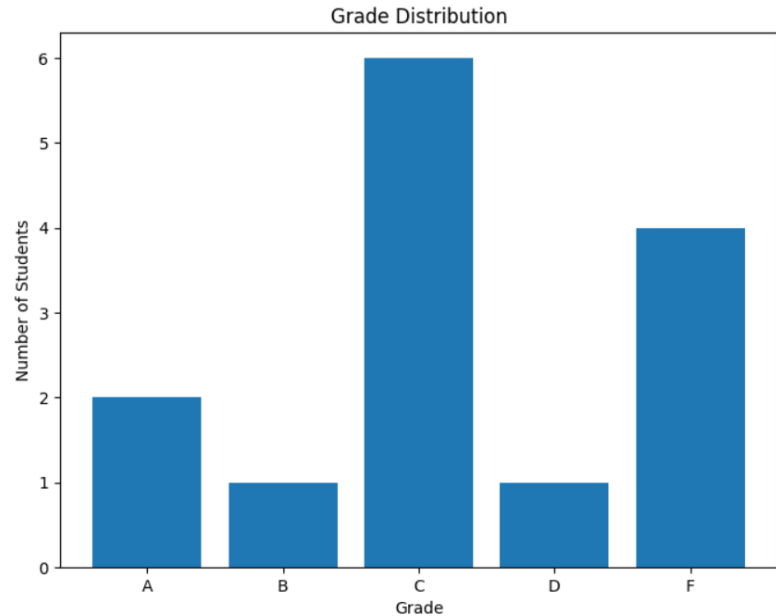


Test report for case “markdata.dat” and “markdata1.dat”

#	Test data	Expected output	Pass
1	markdata.dat 50123456_lam tai man_85.5_80.0_80.0_90.0 50223456_li tai man_61.0_90.5_60.0_55.5 50323456_wong tai man_90.0_30.0_50.0_79.5 50423456_ng tai man_62.75_70.0_65.5_48.5 50523456_lau tai man_58.0_62.4_86.55_70.0 50623456_chui tai man_31.0_64.5_46.0_29.5 50723456_lim tai man_86.45_60.0_88.5_89.5 50823456_pok tai man_53.0_35.50_75.5_49.5 50923456_kim tai man_58.25_80.0_36.0_56.5 50023456_tsang tai man_35.5_20.0_55.5_79.0 50713456_lee tai man_26.45_30.0_35.5_30.5 50813456_po tai man_23.0_35.50_25.5_29.5 50913456_yim tai man_18.25_40.0_36.0_26.5 50013456_tse tai man_5.5_20.0_5.5_9.0	<pre> Enter one of the following: 1 to print the contents of input data file 2 to print all valid input data 3 to print all students overall mark 4 to print all students whose mark less than 40 5 to plot distribution of grade Q to end Enter 1 to 5 </pre>	Yes
1.1	Enter “1”	<pre> 50123456_lam tai man_85.5_80.0_80.0_90.0 50223456_li tai man_61.0_90.5_60.0_55.5 50323456_wong tai man_90.0_30.0_50.0_79.5 50423456_ng tai man_62.75_70.0_65.5_48.5 50523456_lau tai man_58.0_62.4_86.55_70.0 50623456_chui tai man_31.0_64.5_46.0_29.5 50723456_lim tai man_86.45_60.0_88.5_89.5 50823456_pok tai man_53.0_35.50_75.5_49.5 50923456_kim tai man_58.25_80.0_36.0_56.5 50023456_tsang tai man_35.5_20.0_55.5_79.0 50713456_lee tai man_26.45_30.0_35.5_30.5 50813456_po tai man_23.0_35.50_25.5_29.5 50913456_yim tai man_18.25_40.0_36.0_26.5 50013456_tse tai man_5.5_20.0_5.5_9.0 </pre>	Yes

1.2	Enter “2”	<table><tr><th>Stud ID</th><th>Name</th><th>CW1 mark</th><th>Test mark</th><th>CW2 mark</th><th>Exam mark</th></tr><tr><td colspan="6">=====</td></tr><tr><td>50623456</td><td>chui tai man</td><td>31.00</td><td>64.50</td><td>46.00</td><td>29.50</td></tr><tr><td>50923456</td><td>kim tai man</td><td>58.25</td><td>80.00</td><td>36.00</td><td>56.50</td></tr><tr><td>50123456</td><td>lam tai man</td><td>85.50</td><td>80.00</td><td>80.00</td><td>90.00</td></tr><tr><td>50523456</td><td>lau tai man</td><td>58.00</td><td>62.40</td><td>86.55</td><td>70.00</td></tr><tr><td>50713456</td><td>lee tai man</td><td>26.45</td><td>30.00</td><td>35.50</td><td>30.50</td></tr><tr><td>50223456</td><td>li tai man</td><td>61.00</td><td>90.50</td><td>60.00</td><td>55.50</td></tr><tr><td>50723456</td><td>lim tai man</td><td>86.45</td><td>60.00</td><td>88.50</td><td>89.50</td></tr><tr><td>50423456</td><td>ng tai man</td><td>62.75</td><td>70.00</td><td>65.50</td><td>48.50</td></tr><tr><td>50813456</td><td>po tai man</td><td>23.00</td><td>35.50</td><td>25.50</td><td>29.50</td></tr><tr><td>50823456</td><td>pok tai man</td><td>53.00</td><td>35.50</td><td>75.50</td><td>49.50</td></tr><tr><td>50023456</td><td>tsang tai man</td><td>35.50</td><td>20.00</td><td>55.50</td><td>79.00</td></tr><tr><td>50013456</td><td>tse tai man</td><td>5.50</td><td>20.00</td><td>5.50</td><td>9.00</td></tr><tr><td>50323456</td><td>wong tai man</td><td>90.00</td><td>30.00</td><td>50.00</td><td>79.50</td></tr><tr><td>50913456</td><td>yim tai man</td><td>18.25</td><td>40.00</td><td>36.00</td><td>26.50</td></tr></table>	Stud ID	Name	CW1 mark	Test mark	CW2 mark	Exam mark	=====						50623456	chui tai man	31.00	64.50	46.00	29.50	50923456	kim tai man	58.25	80.00	36.00	56.50	50123456	lam tai man	85.50	80.00	80.00	90.00	50523456	lau tai man	58.00	62.40	86.55	70.00	50713456	lee tai man	26.45	30.00	35.50	30.50	50223456	li tai man	61.00	90.50	60.00	55.50	50723456	lim tai man	86.45	60.00	88.50	89.50	50423456	ng tai man	62.75	70.00	65.50	48.50	50813456	po tai man	23.00	35.50	25.50	29.50	50823456	pok tai man	53.00	35.50	75.50	49.50	50023456	tsang tai man	35.50	20.00	55.50	79.00	50013456	tse tai man	5.50	20.00	5.50	9.00	50323456	wong tai man	90.00	30.00	50.00	79.50	50913456	yim tai man	18.25	40.00	36.00	26.50	Yes																																
Stud ID	Name	CW1 mark	Test mark	CW2 mark	Exam mark																																																																																																																														
=====																																																																																																																																			
50623456	chui tai man	31.00	64.50	46.00	29.50																																																																																																																														
50923456	kim tai man	58.25	80.00	36.00	56.50																																																																																																																														
50123456	lam tai man	85.50	80.00	80.00	90.00																																																																																																																														
50523456	lau tai man	58.00	62.40	86.55	70.00																																																																																																																														
50713456	lee tai man	26.45	30.00	35.50	30.50																																																																																																																														
50223456	li tai man	61.00	90.50	60.00	55.50																																																																																																																														
50723456	lim tai man	86.45	60.00	88.50	89.50																																																																																																																														
50423456	ng tai man	62.75	70.00	65.50	48.50																																																																																																																														
50813456	po tai man	23.00	35.50	25.50	29.50																																																																																																																														
50823456	pok tai man	53.00	35.50	75.50	49.50																																																																																																																														
50023456	tsang tai man	35.50	20.00	55.50	79.00																																																																																																																														
50013456	tse tai man	5.50	20.00	5.50	9.00																																																																																																																														
50323456	wong tai man	90.00	30.00	50.00	79.50																																																																																																																														
50913456	yim tai man	18.25	40.00	36.00	26.50																																																																																																																														
1.3	Enter “3”	<table><tr><th>Stud ID</th><th>Name</th><th>CW1 mark</th><th>Test mark</th><th>CW2 mark</th><th>Exam mark</th><th>CW mark</th><th>Overall</th></tr><tr><td colspan="8">=====</td></tr><tr><td>50623456</td><td>chui tai man</td><td>31.00</td><td>64.50</td><td>46.00</td><td>29.50</td><td>46.70</td><td>41.54</td></tr><tr><td>50923456</td><td>kim tai man</td><td>58.25</td><td>80.00</td><td>36.00</td><td>56.50</td><td>49.25</td><td>51.42</td></tr><tr><td>50123456</td><td>lam tai man</td><td>85.50</td><td>80.00</td><td>80.00</td><td>90.00</td><td>81.10</td><td>83.77</td></tr><tr><td>50523456</td><td>lau tai man</td><td>58.00</td><td>62.40</td><td>86.55</td><td>70.00</td><td>76.01</td><td>74.21</td></tr><tr><td>50713456</td><td>lee tai man</td><td>26.45</td><td>30.00</td><td>35.50</td><td>30.50</td><td>32.59</td><td>31.96</td></tr><tr><td>50223456</td><td>li tai man</td><td>61.00</td><td>90.50</td><td>60.00</td><td>55.50</td><td>66.30</td><td>63.06</td></tr><tr><td>50723456</td><td>lim tai man</td><td>86.45</td><td>60.00</td><td>88.50</td><td>89.50</td><td>82.39</td><td>84.52</td></tr><tr><td>50423456</td><td>ng tai man</td><td>62.75</td><td>70.00</td><td>65.50</td><td>48.50</td><td>65.85</td><td>60.64</td></tr><tr><td>50813456</td><td>po tai man</td><td>23.00</td><td>35.50</td><td>25.50</td><td>29.50</td><td>27.00</td><td>27.75</td></tr><tr><td>50823456</td><td>pok tai man</td><td>53.00</td><td>35.50</td><td>75.50</td><td>49.50</td><td>63.00</td><td>58.95</td></tr><tr><td>50023456</td><td>tsang tai man</td><td>35.50</td><td>20.00</td><td>55.50</td><td>79.00</td><td>44.40</td><td>54.78</td></tr><tr><td>50013456</td><td>tse tai man</td><td>5.50</td><td>20.00</td><td>5.50</td><td>9.00</td><td>8.40</td><td>8.58</td></tr><tr><td>50323456</td><td>wong tai man</td><td>90.00</td><td>30.00</td><td>50.00</td><td>79.50</td><td>54.00</td><td>61.65</td></tr><tr><td>50913456</td><td>yim tai man</td><td>18.25</td><td>40.00</td><td>36.00</td><td>26.50</td><td>33.25</td><td>31.22</td></tr></table>	Stud ID	Name	CW1 mark	Test mark	CW2 mark	Exam mark	CW mark	Overall	=====								50623456	chui tai man	31.00	64.50	46.00	29.50	46.70	41.54	50923456	kim tai man	58.25	80.00	36.00	56.50	49.25	51.42	50123456	lam tai man	85.50	80.00	80.00	90.00	81.10	83.77	50523456	lau tai man	58.00	62.40	86.55	70.00	76.01	74.21	50713456	lee tai man	26.45	30.00	35.50	30.50	32.59	31.96	50223456	li tai man	61.00	90.50	60.00	55.50	66.30	63.06	50723456	lim tai man	86.45	60.00	88.50	89.50	82.39	84.52	50423456	ng tai man	62.75	70.00	65.50	48.50	65.85	60.64	50813456	po tai man	23.00	35.50	25.50	29.50	27.00	27.75	50823456	pok tai man	53.00	35.50	75.50	49.50	63.00	58.95	50023456	tsang tai man	35.50	20.00	55.50	79.00	44.40	54.78	50013456	tse tai man	5.50	20.00	5.50	9.00	8.40	8.58	50323456	wong tai man	90.00	30.00	50.00	79.50	54.00	61.65	50913456	yim tai man	18.25	40.00	36.00	26.50	33.25	31.22	Yes
Stud ID	Name	CW1 mark	Test mark	CW2 mark	Exam mark	CW mark	Overall																																																																																																																												
=====																																																																																																																																			
50623456	chui tai man	31.00	64.50	46.00	29.50	46.70	41.54																																																																																																																												
50923456	kim tai man	58.25	80.00	36.00	56.50	49.25	51.42																																																																																																																												
50123456	lam tai man	85.50	80.00	80.00	90.00	81.10	83.77																																																																																																																												
50523456	lau tai man	58.00	62.40	86.55	70.00	76.01	74.21																																																																																																																												
50713456	lee tai man	26.45	30.00	35.50	30.50	32.59	31.96																																																																																																																												
50223456	li tai man	61.00	90.50	60.00	55.50	66.30	63.06																																																																																																																												
50723456	lim tai man	86.45	60.00	88.50	89.50	82.39	84.52																																																																																																																												
50423456	ng tai man	62.75	70.00	65.50	48.50	65.85	60.64																																																																																																																												
50813456	po tai man	23.00	35.50	25.50	29.50	27.00	27.75																																																																																																																												
50823456	pok tai man	53.00	35.50	75.50	49.50	63.00	58.95																																																																																																																												
50023456	tsang tai man	35.50	20.00	55.50	79.00	44.40	54.78																																																																																																																												
50013456	tse tai man	5.50	20.00	5.50	9.00	8.40	8.58																																																																																																																												
50323456	wong tai man	90.00	30.00	50.00	79.50	54.00	61.65																																																																																																																												
50913456	yim tai man	18.25	40.00	36.00	26.50	33.25	31.22																																																																																																																												
1.4	Enter “4”	<table><tr><th>Stud ID</th><th>Name</th><th>CW1 mark</th><th>Test mark</th><th>CW2 mark</th><th>Exam mark</th><th>CW mark</th><th>Overall</th></tr><tr><td colspan="8">=====</td></tr><tr><td>50713456</td><td>lee tai man</td><td>26.45</td><td>30.00</td><td>35.50</td><td>30.50</td><td>32.59</td><td>31.96</td></tr><tr><td>50813456</td><td>po tai man</td><td>23.00</td><td>35.50</td><td>25.50</td><td>29.50</td><td>27.00</td><td>27.75</td></tr><tr><td>50013456</td><td>tse tai man</td><td>5.50</td><td>20.00</td><td>5.50</td><td>9.00</td><td>8.40</td><td>8.58</td></tr><tr><td>50913456</td><td>yim tai man</td><td>18.25</td><td>40.00</td><td>36.00</td><td>26.50</td><td>33.25</td><td>31.22</td></tr></table>	Stud ID	Name	CW1 mark	Test mark	CW2 mark	Exam mark	CW mark	Overall	=====								50713456	lee tai man	26.45	30.00	35.50	30.50	32.59	31.96	50813456	po tai man	23.00	35.50	25.50	29.50	27.00	27.75	50013456	tse tai man	5.50	20.00	5.50	9.00	8.40	8.58	50913456	yim tai man	18.25	40.00	36.00	26.50	33.25	31.22	Yes																																																																																
Stud ID	Name	CW1 mark	Test mark	CW2 mark	Exam mark	CW mark	Overall																																																																																																																												
=====																																																																																																																																			
50713456	lee tai man	26.45	30.00	35.50	30.50	32.59	31.96																																																																																																																												
50813456	po tai man	23.00	35.50	25.50	29.50	27.00	27.75																																																																																																																												
50013456	tse tai man	5.50	20.00	5.50	9.00	8.40	8.58																																																																																																																												
50913456	yim tai man	18.25	40.00	36.00	26.50	33.25	31.22																																																																																																																												

1.5	Enter “5”		Yes
2	No .dat file	Type "python grade.py filename" to run program	Yes
3, 4, 5, 6	markdata1.dat 50123456_lam tai man_85.5_80a.0_80.0_90.0 50223456_li tai man_61.0_190.5_60.0_55.5 50323456_90.0_30.0_50.0_79.5 5042356_ng tai man_62.75_65.5_48.5 50523456_lau tai man_58.0_62.4_86.55_70.0_12.0 50623456_chui tai man_31.0_64.5_46.0_-29.5 50723456_lim tai man_86.45_60.0_88.5_89.5 50823456_pok tai man_53.0_35.50_75.5_49.5 50923456_kim tai man_58.25_80.0_36.0_56.5 50023456_tsang tai man_35.5_20.0_55.5_79.0 50023456_tsang tai man_35.5_20.0_55.5_79.0 50713456_lee tai man_26.45_30.0_35.5_30.5 50813456_po tai man_23.0_35.50_25.5_29.5 50913456_yim tai man_18.25_40.0_36.0_26.5 50013456_tse tai man_5.5_20.0_5.5_9.0 50999999_chan peter_80.00_80.00_60.0_80.5 50999999_chan peter_80.00_80.00_60.0_80.5	<pre>could not convert string to float: '80a.0' in input: 50123456_lam tai man_85.5_80a.0_80.0_90.0 invalid mark value "190.5" in input: 50223456_li tai man_61.0_190.5_60.0_55.5 invalid student name "" in input: 50323456_90.0_30.0_50.0_79.5 could not convert string to float: '' in input: 5042356_ng tai man_62.75_65.5_48.5 incorrect number of items in input: 50523456_lau tai man_58.0_62.4_86.55_70.0_12.0 invalid mark value "-29.5 " in input: 50623456_chui tai man_31.0_64.5_46.0_-29.5 repeat student ID in input: 50023456_tsang tai man_35.5_20.0_55.5_79.0 repeat student ID in input: 50999999_chan peter_80.00_80.00_60.0_80.5 Enter one of the following: 1 to print the contents of input data file 2 to print all valid input data 3 to print all students overall mark 4 to print all students whose mark less than 40 5 to plot distribution of grade Q to end</pre>	Yes