

prog11 - Abdulrahman Zaiter

```

EXAM_MAX ← 100.00 EXAM_MIN ← 0.00 ID_MAX ← 9999 ID_MIN ← 1111 MALE_ID ← 'M' FEMALE_ID ← 'F'
EXCELLENT_MAX ← 100 EXCELLENT_MIN ← 90 GOOD_MAX ← 89 GOOD_MIN ← 80 OK_MAX ← 79 OK_MIN ← 70
WEAK_MAX ← 69 WEAK_MIN ← 60 FAILING_MAX ← 59 FAILING_MIN ← 0 studCnt ← 0 examAvgSum ← 0 invalidCnt ← 0
cntExcellent ← 0 cntGood ← 0 cntOk ← 0 cntWeak ← 0 cntFailing ← 0 maleCnt ← 0 femaleCnt ← 0

```

```
printHeading()
```

```
readRd(studData)
```

WHILE There is data DO

```
printRd(studData)
```

IS (validData(studData)) ?

T

F

```
examAvg ← avg(studData)
studCnt ← studCnt + 1
```

```
printInvalidDataMsg()
```

IS (studData.sex = MALE_ID) ?

T

F

```
maleCnt ← maleCnt + 1
```

```
femaleCnt ← femaleCnt + 1
```

```
invalidCnt ← invalidCnt + 1
```

```
studGrade ← grade(examAvg)
```

```
countGrades(studGrade, cntExcellent, cntGood, cntOk, cntWeak, cntFailing)
```

```
examAvgSum ← examAvgSum + examAvg
```

```
printAvgAndGrade(examAvg, studGrade)
```

```
readRd(studName, studId, exam1, exam2, exam3)
```

Is studCnt > 0

T

F

```
maleAndFemalePrec(studCnt, maleCnt, femaleCnt, malePerc, femalePerc)
```

```
printNoValidData()
```

```
printBarChart(studCnt, cntExcellent, cntGood, cntOk, cntWeak, cntFailing)
```

```
printValidInvalidPerc(invalidCnt, studCnt)
```

```
printMeanOfAllAvg(examAvgSum, studCnt)
```

```
printPrec(malePerc, femalePerc)
```

```
printValidInvalidPerc(invalidCnt, studCnt)
```

```
output("< end >")
```