Initialize Variables:

- gp = grade points for one grade
- u = units for one grade
- tu = total units accumulated so far = 0.0
- tp = total grade points accumulated so far = 0.0
- gpa = 0.0

START

Read a grade and its units

Data valid?

YES

NO

grade == 'A'? NO

grade == 'B'? NO

grade == 'C'? NO

grade == 'D'? NO

NO

YES

YES

YES

NO

NO

NO

gp = 4.0*u

gp = 3.0*u

gp = 2.0*u

gp = u

gp = 0

REMARK:

gpa = \frac{g_1u_1 + \ldots + g_nu_n}{u_1 + \ldots + u_n}

More Data?

NO

YES

gpa = tp/tu

Display gpa

END