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# 找到GPA最高的学生

class Student:
    def __init__(self, name, hours, qpoints):
        self.name = name
        self.hours = float(hours)
        self.qpoints = float(qpoints)

    def getName(self):
        return self.name

    def getHours(self):
        return self.hours

    def getQPoints(self):
        return self.qpoints

    def gpa(self):
        return self.qpoints/self.hours

def makeStudent(infoStr):
    name, hours, qpoints = infoStr.split("\t")
    return Student(name, hours, qpoints)

def main():
    # 打开输入文件
    filename = input("Enter name the grade file: ")
    infile = open(filename, 'r')
    # 设置文件中第一个学生的记录为best
    best = makeStudent(infile.readline())

    # 处理文件剩余行数据
    for line in infile:
        # 将每一行数据转换为一个记录
        s = makeStudent(line)
        # 如果该学生是目前GPA最高的，则记录下来
        if s.gpa() > best.gpa():
            best = s
    infile.close()

    # 打印GPA成绩最高的学生信息
    print("The best student is:", best.getName())
    print("hours:", best.getHours())
    print("GPA:", best.gpa())

if __name__ == '__main__':
    main()
```