

Q7. Best Delivery Person (40 marks)

A food delivery company assesses the performance of its delivery personnel every week, in order to determine the best delivery person based on the highest single-day earnings achieved by each delivery person within that week.

As per company's policy,

1. Delivery personnel can independently decide their preferred working days and the number of deliveries they will do on each of their working days.
2. The number of deliveries made by a delivery person on a day may vary, ranging from 0 to 10 deliveries.
3. The delivery record of each delivery person in a given week will be stored in the system according to their daily earnings, that is, the sequence of daily earnings will be presented as "Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Sunday".
4. For example, if the record of a delivery person is, "**1.45;0.60/10.30;6.35;3.21/1.99;2.88/0/0/0/0**", it shows the following information:
 - (i) The corresponding delivery person worked continuously for three days from Monday to Wednesday, using a forward slash ("/) to separate the days of deliveries.
 - (ii) Furthermore, the semicolon (";") is used to separate the delivery fees per each delivery for that particular day. For instance, "1.45;0.60" implies the delivery person completed two deliveries on Monday, and the amounts earned are 1.45 and 0.60, respectively; while "10.30;6.35;3.21" means that the delivery person completed three deliveries on Tuesday, with the amounts earned being 10.30, 6.35, and 3.21, respectively.
5. It is important to note that there may be days where no deliveries were made, and as such, these days are indicated explicitly with a zero. For example, in the given record of "**2.35;1.85/8.55;5.10;3.66/2.90;5.50/0/1.22;3.00/0/0**", it is evident that there were no deliveries made by the delivery person on Thursday, Saturday, and Sunday.

Write a program to**Input, in sequence:**

- (1) The total number of delivery personnel, N , within the company, where $1 \leq N \leq 10$.
- (2) N lines of delivery records of the company's personnel in a given week.

NOTE: Assume that (i) all non-zero single-day earnings are different; (ii) there will not be an all-zero record; and (iii) a maximum of 10 deliveries can be made per person per day.

Output, in sequence:

- (1) The delivery record, n , with the highest-single-day earnings among all, given $1 \leq n \leq N$.
- (2) The day when the abovementioned highest-single-day earnings occurred. This day must be one of the following: "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", or "Sunday";
- (3) The total number of deliveries made by the corresponding delivery person on the day of the highest-single-day earnings;
- (4) The total amount of delivery fees earned by the delivery person on the day of the highest-single-day earnings. Display this amount with exactly two decimal points.

试题 7. 最佳送餐员 (40 分)

一家送餐公司每周都会根据每位送餐员当周内最高单日收入来评估送餐员的表现，并以此决定最佳送餐员。

以下是公司的政策：

1. 送餐员可以独立决定他们偏好的工作日以及在每个工作日上将会完成的送餐数量。
2. 送餐员每天送餐的数量可能会有所变化，其范围从 0 次到 10 次不等。
3. 在一个给定的星期内，送餐员的送餐记录将根据此星期每一天的格式存储在系统中，即“Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Sunday”。
4. 例如，某送餐员的记录为“1.45;0.60/10.30;6.35;3.21/1.99;2.88/0/0/0/0”，则此条记录显示了以下信息：
 - (i) 送餐员从星期一到星期三连续工作了三天，用正斜杠 (“/”) 来分隔送餐的日子。
 - (ii) 此外，分号 (“;”) 用于分隔该特定日子每次的送餐费。例如，“1.45;0.60”表示送餐员在星期一完成了两次送餐，所赚金额分别为 1.45 和 0.60，而“10.30;6.35;3.21”表示送餐员在星期二完成了三次送餐，所赚金额分别为 10.30、6.35 和 3.21。
5. 需要注意的是，在某些日子若该送餐员并没有提供送餐服务，则这些日子会明确地以零表示。例如，若给定的记录为“2.35;1.85/8.55;5.10;3.66/2.90;5.50/0/1.22;3.00/0/0”，则其显示了星期四、星期六和星期天该送餐员没有进行送餐服务。

试写一程式以

依序输入：

- (1) 公司内的送餐人员总数， N ，其中 $1 \leq N \leq 10$ 。
 - (2) N 行记录，其中每一行对应到公司某一位送餐员在该周内的送餐记录。
- 注意：**我们假设 (i) 所有非零的单日收入都互不相同；(ii) 没有全零的一行记录；(iii) 每人每天最多可以进行 10 次送餐服务。

依序输出：

- (1) 所有送餐记录中，拥有单日收入最高的送餐记录，假设该记录为 n ，则 $1 \leq n \leq N$ ；
- (2) 最高单日收入出现的日子，该日子必须严格为以下格式之一：“Monday”，“Tuesday”，“Wednesday”，“Thursday”，“Friday”，“Saturday”，或“Sunday”；
- (3) 在最高单日收入上，该相应送餐员完成的送餐数量；
- (4) 该送餐员在最高单日收入的日子所赚取的送餐费用的总数。此总数必须以两位小数的形式来呈现。

Examples (例子)

Input (输入)	Output (输出)
1 1.45;0.60/10.30;6.35/1.99;2.88/0/0/0/0	1 Tuesday 2 16.65
2 1.45;0.60/5.30;6.35/1.99;2.88/0/0/0/0 1.25;10.60/5.40;1.20/1.80;4.00/0/0/0/0	2 Monday 2 11.85
2 1.45;0.60/10.30;6.35;3.21/1.99;2.88/0/0/0/0 1.25;10.60/5.40;1.20/1.80;7.45/0/0/2.45;1.55/3.50;5.55	1 Tuesday 3 19.86
3 1.45;0.60/10.30;6.35;3.21/1.99;2.88/5.00;3.90/1.00;2.00/3.00;4.00/9.45;8.00 1.25;10.60/5.40;1.20/1.80;7.45/0/0/0/0 2.45;8.60/7.30;4.35;7.21/3.99;5.88/0/1.22;3.00;4.00;5.00;6.00;7.00/0/0	3 Friday 6 26.22
4 1.25;10.60/5.40;1.20/1.80;7.45/0/0/0/0 1.45;0.60/10.30/1.99;2.88/5.00;3.90/2.00/3.00;4.00/9.45;8.00 1.25;10.60/5.40;1.20/1.80;7.45/0/0/2.45;1.55/3.50;5.55 1.45;0.60/10.30;6.35;3.21/0/0/0/0/9.45;8.00;1.00;2.00;3.00;4.00	4 Sunday 6 27.45

Test Cases

Input (輸入)	Output (輸出)
1 1.45;0.60/10.30;6.35/1.99;2.88/0/0/0/0	1 Tuesday 2 16.65
2 1.45;0.60/5.30;6.35/1.99;2.88/0/0/0/0 1.25;10.60/5.40;1.20/1.80;4.00/0/0/0/0	2 Monday 2 11.85
2 1.45;0.60/10.30;6.35;3.21/1.99;2.88/0/0/0/0 1.25;10.60/5.40;1.20/1.80;7.45/0/0/2.45;1.55/3.50;5.55	1 Tuesday 3 19.86
3 1.45;0.60/10.30;6.35;3.21/1.99;2.88/5.00;3.90/1.00;2.00/3.00;4.00/9.45;8.00 1.25;10.60/5.40;1.20/1.80;7.45/0/0/0/0 2.45;8.60/7.30;4.35;7.21/3.99;5.88/0/1.22;3.00;4.00;5.00;6.00;7.00/0/0	3 Friday 6 26.22
4 1.25;10.60/5.40;1.20/1.80;7.45/0/0/0/0 1.45;0.60/10.30/1.99;2.88/5.00;3.90/2.00/3.00;4.00/9.45;8.00 1.25;10.60/5.40;1.20/1.80;7.45/0/0/2.45;1.55/3.50;5.55 1.45;0.60/10.30;6.35;3.21/0/0/0/0/9.45;8.00;1.00;2.00;3.00;4.00	4 Sunday 6 27.45
2 1.45;10.60/10.30;6.35;3.21/1.99;2.88/0/0/0/0 1.25;10.60/5.40;1.20/17.80;7.45/0/0/0/0	2 Wednesday 2 25.25
4 1.45;0.60/0/1.99;2.88/5.00;3.90/1.00;2.00/3.00;4.00/9.45;8.00	4 Friday 8 56.70

1.25;10.60/5.40;1.20/1.80;7.45/0/0/0/0 2.45;8.60/7.30;4.35;7.21/3.99;5.88/0/1.22;3.00;4.00/0/0 4.25;1.60/5.40/0/0/1.80;27.45;9.45;8.00;1.00;2.00;3.00;4.00/0/0	
2 1.45;10.60/10.30;6.35;3.21/1.99;2.88/0/0/0/0 1.25;10.60/5.40;1.20/0/0/23.00;4.55/3.40;9.00/37.54	2 Sunday 1 37.54

