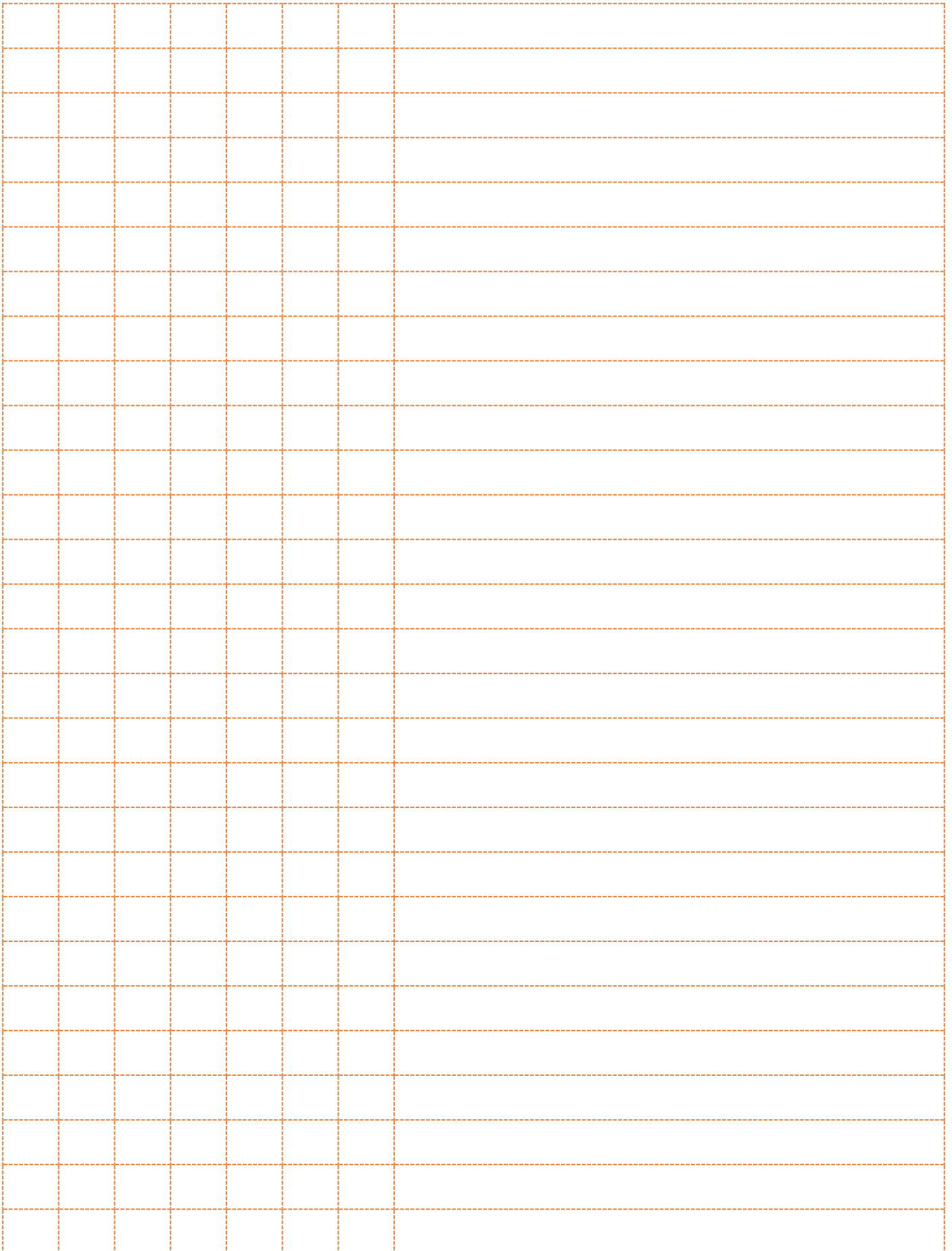


QUID:

Q.1 [6 POINTS] Every food delivery company has several drivers, that varies from one delivery company to another. Each driver delivers several orders in a day, that also varies from one driver to another. Each order has a different bill amount based on the order. Once again, the bill amount varies from one order to another. Write a program that acquires the number of drivers, then for each driver it requires the number of delivered orders then for each order it requires the bill amount. The program should:

- For each driver, display the total amount for all bills of orders delivered by a driver.
- For all drivers, display the total amount for all bills of orders for all drives altogether.
- Display the driver number that has the minimum total amount of bills of delivered orders.

[illegible]

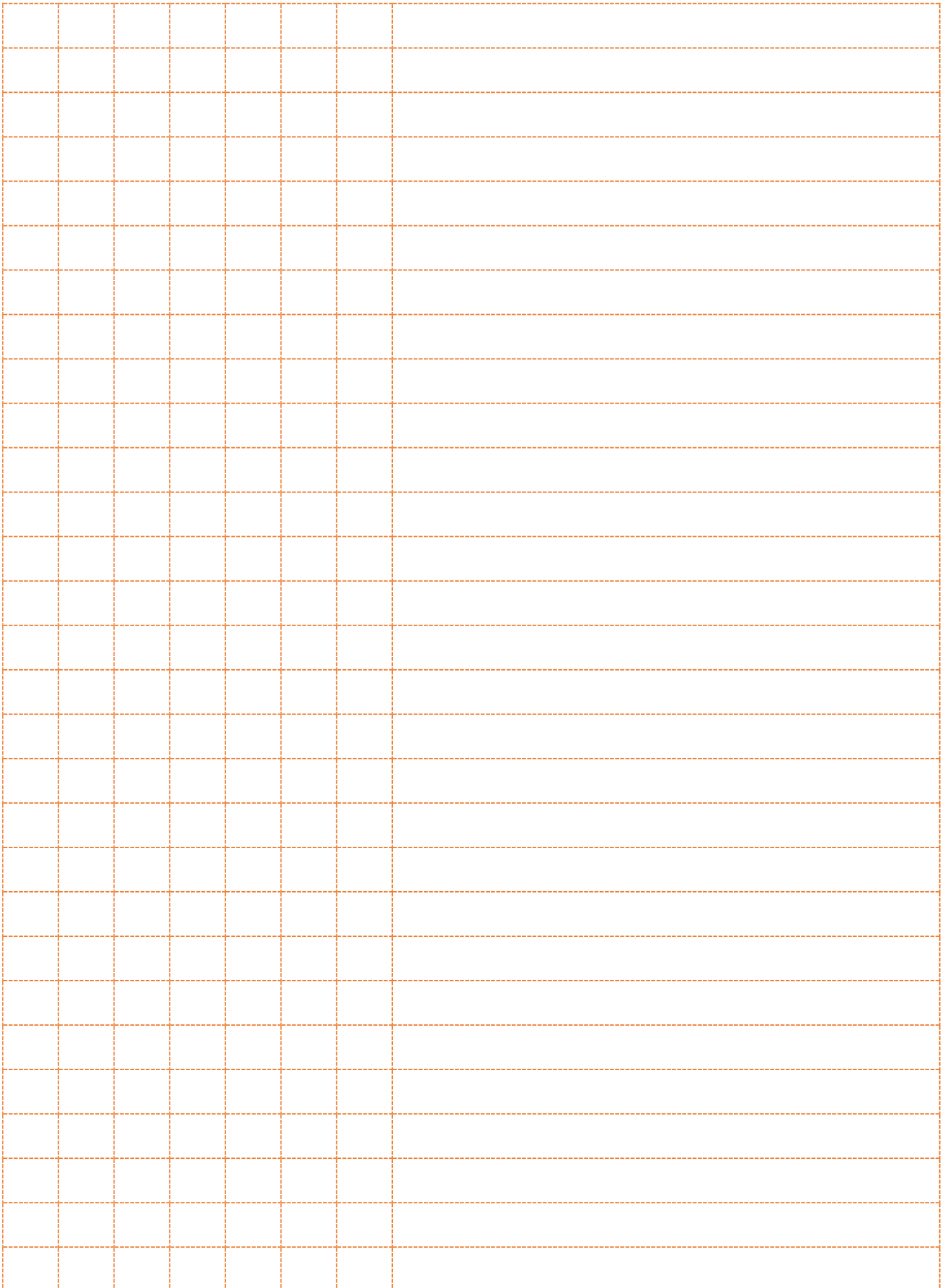


Note that some donations do not have donor's rating.

- Display **total amounts of donations** for the event with the code HDYYW00E013 by Unknown donors.
- Display **the number of donations** by Unknown donors in October regardless of the year.
- Display the **codes of donations** that have been made between 10:30 am and 5:30 pm with a rating higher than 6.
- Write all **unique events' donation codes** to the file **events.txt**.

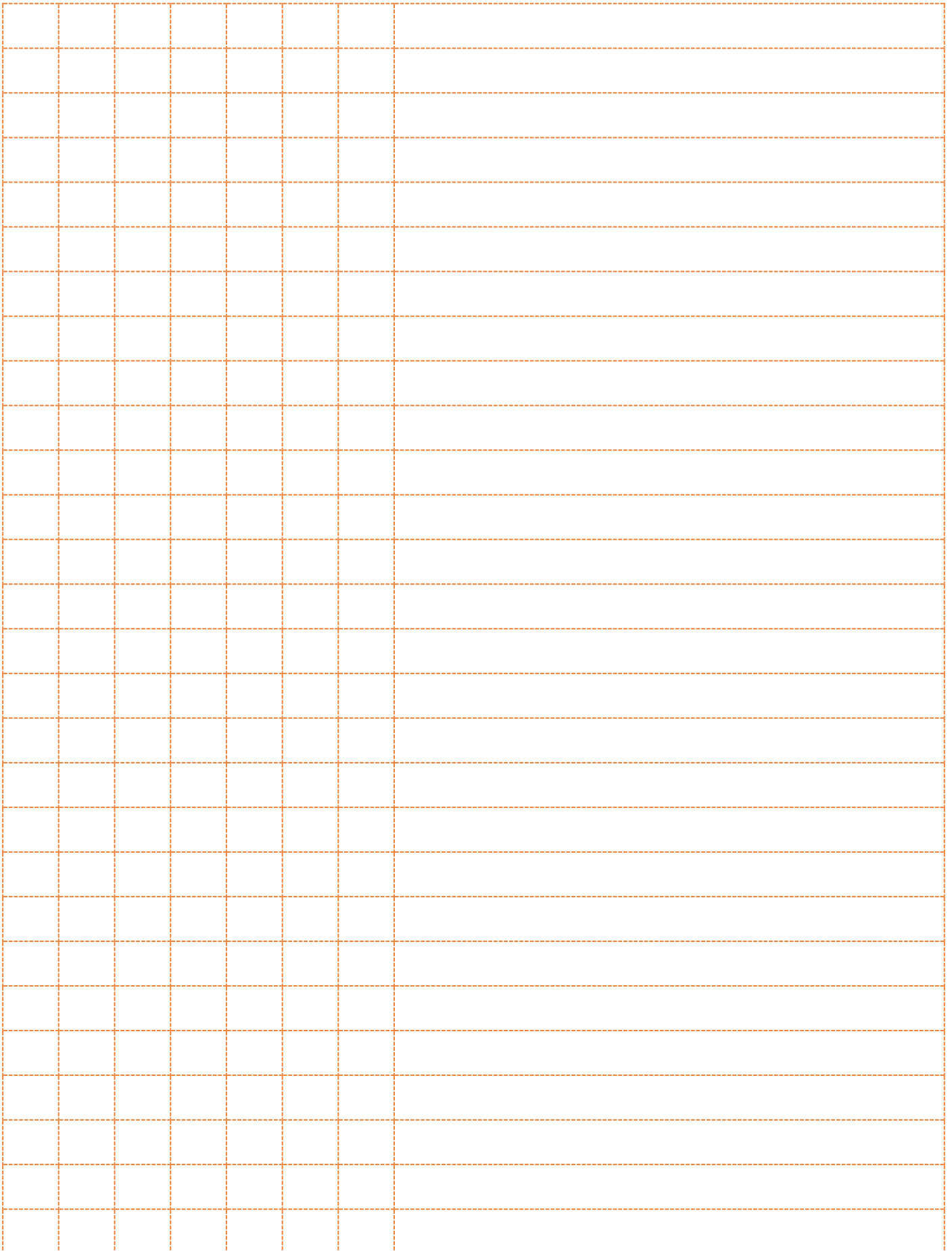
```
Code,Date yyyy-mm-dd time hh:mm:ss,Donor's Name,mount$,Rating
TT7373WY12,2023-10-01 08:15:00,Unknown,100000$,7
TT7373WY12,2023-10-03 17:20:00,Khaled,5000$
DAIF6826Y6,2023-03-14 22:25:00,Sarah,600$,8
DAIF838H53,2023-05-29 22:25:00,Unknown,8000$
...
```

This image shows a full page of graph paper. The grid consists of small squares formed by dashed orange lines. There are 8 columns and 10 rows of these squares. The entire grid is enclosed within a solid orange border.



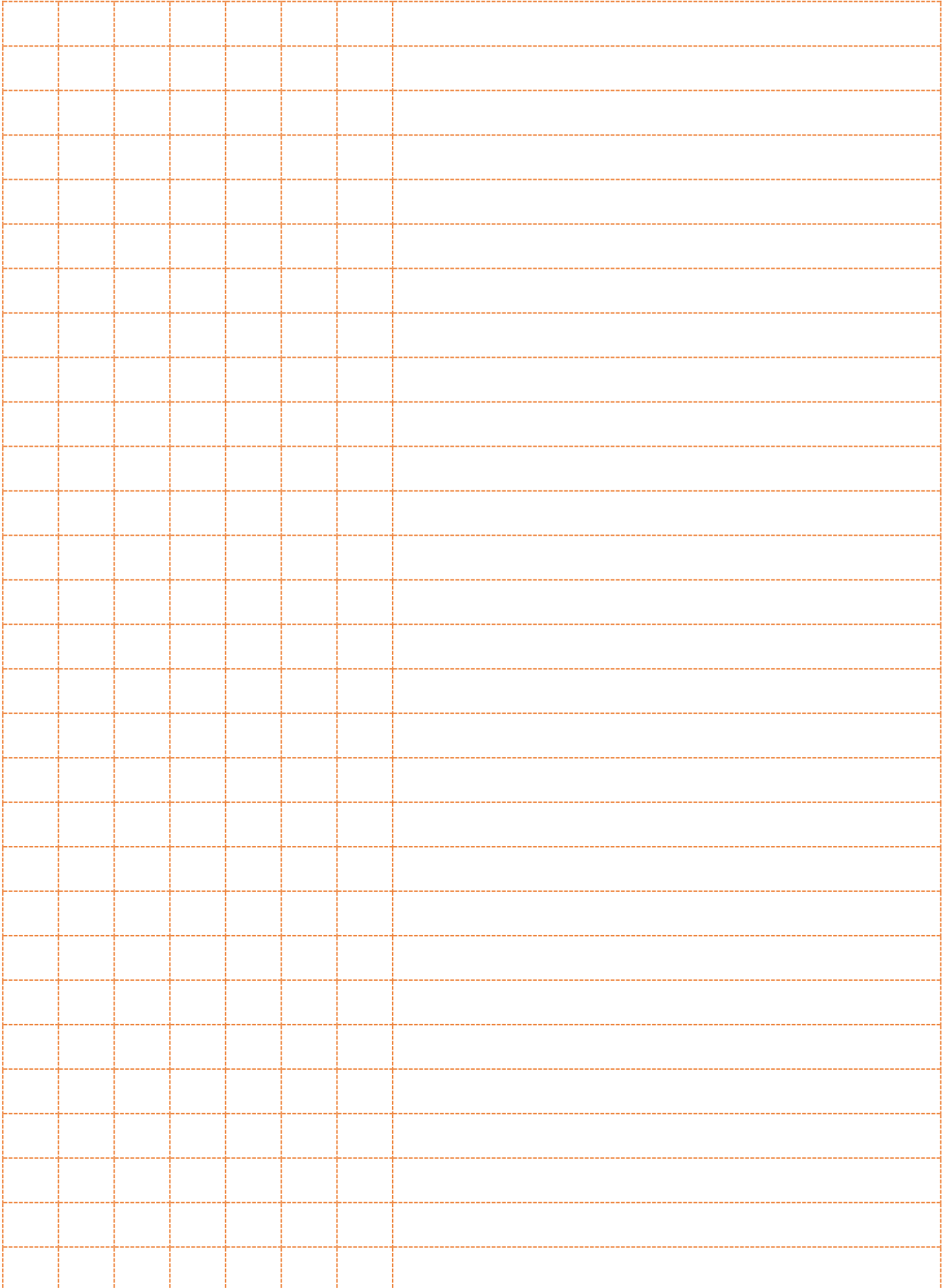
Q.3 [6 POINTS] Write the full code of a program that reads the total bill amount in QR and a string that represents the code of discount voucher. The program validates the code of the discount voucher by calling the function `validateVoucher(code)` that returns the discount percentage if the voucher is valid, otherwise it returns 0. The program displays the amount to be paid after deducting the discount from the total bill amount.

The code of a discount voucher is valid if it satisfies all the following conditions: (1) code length is twelve characters, (2) first three characters are letters, (3) the first and third letters are capital while the second letter is small case, (3) the characters from the fourth to the tenth have only one uppercase letter, one underscore, two lowercase letter, and three digits in any order (4) the last two characters are digits representing the discount percentage.

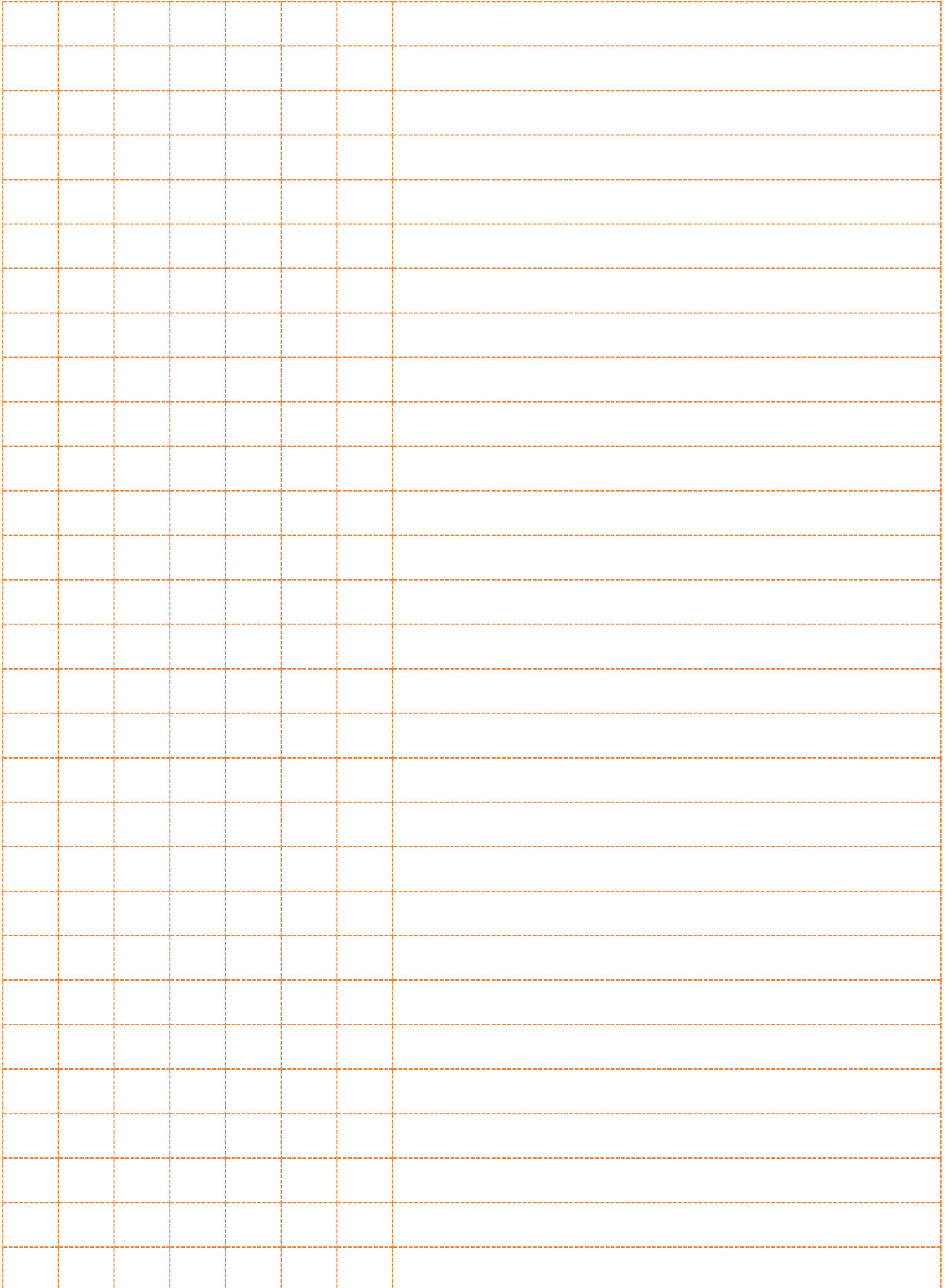


The function returns the dictionary: {'USB Switch 8': (6, 'e-max'), 'MS Surface 9': (8, 'virgin'), 'Lenovo 24': (9, 'Amazon')}.

[illegible]



[illegible]



Q.5 [2 POINTS] Write the full code of the class Student that holds the following attributes about a student: name, quid, major, and grades list. Code the following:

- Class Student having the constructor `__init__` that receives name, quid, major, and grades list of the student. The class also has the method `__str__` to return a string representing the object state (the values of its attributes).
- A program that
 - creates a list of students of Student class having the following values for their attributes:

name	quid	major	grades
Huda	200206364	CS	[90,87,79,95,68]
Iman	200104812	EE	[93,91,88,97]
Sarah	200200130	CE	[75,73,68,81,83,77]

- Display the data for each student on the screen:
- Create a function that receives a list of Student objects and returns a dictionary where quid is the key, and the grades average is the value.

This image shows a full page of graph paper. It features a uniform grid of dashed orange lines on a white background. The grid consists of 8 columns and 16 rows, creating a total of 128 small squares. The lines are evenly spaced and extend across the entire area of the page.

