

Structure is useful to represent records. A common method to store records in a file is the comma-separated values (CSV), where all values are separated by the comma symbol (,) and every two consecutive records are separated by a newline. However, CSV files are often hard to read by human, so the presentation of data in a CSV file should be carefully considered. Your goal is to write a program to show the data in a file stored in CSV format.

Requirement: use array of structure to store the data.

Input

The input has several records and ends with the EOF. Each record contains the following fields: First Name, Last Name, Nick Name, Age, Gender, University, and Department. All the field values are separated by the comma symbol.

Output

Output the records according to the format shown in the sample output. Two consecutive fields are separated by three spaces, except the fields university and department, where they are separated by 20 spaces. Each dashed line is composed of 112 dashes. All the field values are aligned left except Age (aligned right), and Gender (aligned to the character 'n' in the filed name).

Sample Input

```
Benedict,Bryant,Scarlet,22,Female,Oxford,Mathematics,
Elizabeth,Buss,Bishop,19,Female,Stanford,Psychology,
Benedict,Bryant,Princess,23,Female,UC Berkley,Biology,
Alice,Evan,Mamba,34,Male,Yale,Mechanical Engineering,
```

Sample Output

First Name	Last Name	Nick Name	Age	Gender	University	Department
Benedict	Bryant	Scarlet	22	F	Oxford	Mathematics
Elizabeth	Buss	Bishop	19	F	Stanford	Psychology
Benedict	Bryant	Princess	23	F	UC Berkley	Biology
Alice	Evan	Mamba	34	M	Yale	Mechanical Engineering