



Task Kalendar

Magdalena likes calendars, and she makes her own calendar for each month.

Each day of the month is represented with exactly three characters:

- If the day number is single-digit, then it is represented as `'..X'`. For example, the number 7 is represented as `'..7'`.
- If the day number is double-digit, then it is represented as `'..XY'`. For example, the number 17 is represented as `'..17'`.



Each row of the calendar represents a week, and each week consists of 7 days. If the week doesn't have all the 7 days (because the month doesn't start on Monday, or it doesn't end on Sunday), then the missing days are replaced with `'...'`.

Magdalena also wants her calendar to be pretty. She will decorate it in the following way: she will fill the upper and lower sides with `'-'` (ASCII 45), the left and right sides with `'|'` (ASCII 124), and the corners with `'+''` (ASCII 43).

For example, the format of Magdalena's calendar, when the month has 31 days and starts on Wednesday, is the following:

```
+-----+
|. . . . . 1 . 2 . 3 . 4 . 5 |
|. 6 . 7 . 8 . 9 . 10 . 11 . 12 |
|. 13 . 14 . 15 . 16 . 17 . 18 . 19 |
|. 20 . 21 . 22 . 23 . 24 . 25 . 26 |
|. 27 . 28 . 29 . 30 . 31 . . . . . |
+-----+
```

Your task is to determine the format of Magdalena's calendar if it has n days, and the first day of the month is the x -th day of the week. For example, if $x = 1$, the month starts on Monday, and if $x = 5$, it starts on Friday.

Note: We assume the first day of the week is Monday.

Input

The first and only line contains integers n and d ($1 \leq n \leq 99, 1 \leq d \leq 7$), the number of days in the month, and the day it starts with.

Output

Print Magdalena's calendar.

Scoring

| Subtask | Points | Constraints |
|---------|--------|---------------------------------|
| 1 | 7 | All the days will fit in a row. |
| 2 | 19 | $d = 1$ |
| 3 | 24 | No additional constraints. |



Examples

input

31 3

output

```
+-----+
|. . . . .1..2..3..4..5|
|..6..7..8..9.10.11.12|
|.13.14.15.16.17.18.19|
|.20.21.22.23.24.25.26|
|.27.28.29.30.31. . . .|
+-----+
```

input

1 5

output

```
+-----+
|. . . . .1. . . . .|
+-----+
```

input

28 7

output

```
+-----+
|. . . . . . . . . . .1|
|..2..3..4..5..6..7..8|
|..9.10.11.12.13.14.15|
|.16.17.18.19.20.21.22|
|.23.24.25.26.27.28. . .|
+-----+
```

Clarification of the second example:

Note that, although there is only one day in the month, the calendar still has the format of seven days per row.