



Days in Month

Problem Code: **NW1**

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as well.

RJ is a very curious observer. On the first day of every month, he tries to figure out, for each of the seven days of the week, how many times that day occurs in the current month.

RJ got confused so badly doing this that he asks for your help! He asks several queries; in each query, he gives you the number of days in the current month and which day of the week is on the 1st of the current month.

For each query, you should tell him how many times each day of the week occurs.

Input

- The first line of the input contains a single integer **T** denoting the number of test cases. The description of **T** test cases follows.
- The first and only line of each test case contains an integer **W** and a string **S**, separated by a space.
- W** denotes the number of days in the current month.
- S** is one of the strings "mon", "tues", "wed", "thurs", "fri", "sat" or "sun", denoting the day of the week on the 1st of the current month.

Output

For each query, print seven space-separated integers denoting the number of occurrences of Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Constraints

- $1 \leq T \leq 10^3$
- $28 \leq W \leq 31$

Subtasks

Subtask #1 (20 points): **W** = 28

Subtask #2 (80 points): original constraints

Example

My Submissions

[\(/LTIME55/status/NW1,jackyone\)](/LTIME55/status/NW1,jackyone)

All Submissions

[\(/LTIME55/status/NW1\)](/LTIME55/status/NW1)

Successful Submissions



Input :

2
28 mon
31 wed

Output :

4 4 4 4 4 4 4
4 4 5 5 5 4 4

Example

Example case 2: There are 4 Mondays, 4 Tuesdays, 5 Wednesdays, 5 Thursdays, 5 Fridays, 4 Saturdays and 4 Sundays.

Author: 4★ [abx_2109 \(/users/abx_2109\)](#)

Tester: 6★ [kingofnumbers \(/users/kingofnumbers\)](#)

Date Added: 30-10-2017

Time Limit: 0.5 secs

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 6.3, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, kotlin, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.5, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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<http://www.codechef.com>) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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<https://www.codechef.com/problems/easy>) - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Practice Problems

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[Campus Chapters \(http://www.codechef.com/campus_chapter/about\)](http://www.codechef.com/campus_chapter/about)

[Domain Registration in India \(http://www.bigrock.in/\)](http://www.bigrock.in/) and [Web Hosting \(http://www.bigrock.com/web-hosting/\)](http://www.bigrock.com/web-hosting/) powered by BigRock