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Gethenian calendar

11 points

Introduction

In the science fiction novel "The Left Hand of Darkness" by Ursula K. Le Guin, Genly Ai representing the Ecumen arrives to planet Gethen. He must adapt to its particular cold weather and specific calendar. The Gethenian year has 14 months spread in four seasons:

#	Winter	#	Spring	#	Summer	#	Autumm
1	Thern	5	Irrem	8	Some	12	Gor
2	Thanern	6	Moth	9	Ockre	13	Susymy
3	Nimmer	7	Tuwa	10	Kus	14	Grende
4	Anner			11	Hakanna		

And a Gethenian month has 26 days, where each day has a name:

#	Name	#	Name	#	Name	#	Name
1	Getheny	8	Orny	15	Odsordny	22	Odharhahad
2	Sordny	9	Harhahad	16	Odeps	23	Odgyurny
3	Eps	10	Guyrny	17	Odarhad	24	Odyrny
4	Arhad	11	Yrny	18	Onnetherhad	25	Opposthe
5	Netherhad	12	Posthe	19	Odstreth	26	Ottormenbod
6	Streth	13	Tormenbod	20	Obberny		
7	Berny	14	Odgetheny	21	Odorny		

Given two Gethenian dates considering the same year, can you write a simple program to calculate the number of days between two dates.

Input

The input will be a single line containing a pair of day and month names separated by a dash.

Output

The output will be a single number representing the number of days comprised.

Example

Input

Posthe Tuwa - Odyrny Kus

Output

90