Age in Days

Input file:	**standard input**
Output file:	**standard output**
Time limit:	1 second
Memory limit:	256 megabytes

Given a Number N corresponding to a person's age (in days). Print his age in years, months and days, followed by its respective message "years", "months", "days".

Note: consider the whole year has **365** days and **30** days per month.

Input

Only one line containing a number N ($0 \leq N \leq 10^6$).

Output

Print the output, like the following examples.

Examples

standard input	standard output
400	1 years 1 months 5 days
800	2 years 2 months 10 days
30	0 years 1 months 0 days