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The Virtual Learning Environment for Computer Programming

Card game

Concurs On-line OIE 2007 (2007)

You are playing a card game with a friend. For this game only the suit of the cards matters. The four suits are clubs, diamonds, hearts and spades, with the following values:

Suit	Symbol	Value
Clubs	*	1
Diamonds	\diamond	5
Hearts	\heartsuit	8
Spades	٨	14

Your friend selects a number n, and you must show cards whose total value equals n, by using the minimum possible number of cards. Assume that you have an unlimited number of cards of each suit.

Input

Input consists of several cases, each one with a natural number n between 0 and 500000. Input ends with a -1.

Sample output

Output

For every *n*, print the corresponding result.

Sample input

16	2
31	4
91	8
-1	

Problem information

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