Challenge 1

In this problem, you will be given one or more integers in English. Your task is to translate these numbers into their integer representation. The numbers can range from negative 999,999,999 to positive 999,999,999. The following is an exhaustive list of English words that your program must account for:

negative, zero, one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, thirty, forty, fifty, sixty, seventy, eighty, ninety, hundred, thousand, million

INPUT AND OUTPUT

Notes on input:

- Negative numbers will be preceded by the word negative.
- The word "hundred" is not used when "thousand" could be. For example, 1500 is written "one thousand five hundred", not "fifteen hundred".

SAMPLE INPUT

six, negative seven hundred twenty nine, one million one hundred one

SAMPLE OUTPUT

6, -729, 1000101

Challenge 2

In the block of text below, find the longest substring that is the same in reverse (palindrome). As an example, if the input was "Ilikeracecarsthatgofast" the answer would be "racecar".

Fourscoreandsevenyearsagoourfaathersbroughtforthonthiscontainentanewnationconceiv edinzLibertyanddedicatedtothepropositionthatallmenarecreatedequalNowweareengagedi nagreahtcivilwartestingwhetherthatnaptionoranynartionsoconceivedandsodedicatedcanlo ngendureWeareqmetonagreatbattlefiemldoftzhatwarWehavecometodedicpateaportionoft hatfieldasafinalrestingplaceforthosewhoheregavetheirlivesthatthatnationmightliveItisalto getherfangandproperthatweshoulddothisButinalargersensewecannotdedicatewecannotco nsecratewecannothallowthisgroundThebravelmenlivinganddeadwhostruggledherehaveco nsecrateditfaraboveourpoorponwertoaddordetractTgheworldadswfilllittlenotlenorlongre memberwhatwesayherebutitcanneverforgetwhattheydidhereItisforusthelivingrathertobed edicatedheretotheulnfinishedworkwhichtheywhofoughttherehavethusfarsonoblyadvancedI tisratherforustobeherededicatedtothegreattdafskremainingbeforeusthatfromthesehonore ddeadwetakeincreaseddevotiontothatcauseforwhichtheygavethelastpfullmeasureofdevoti onthatweherehighlyresolvethatthesedeadshallnothavediedinvainthatthisnationunsderGod shallhaveanewbirthoffreedomandthatgovernmentofthepeoplebythepeopleforthepeoplesh allnotperishfromtheearth

Challenge 3

Given the dictionary of words:
albums
barely
befoul
convex
hereby
jigsaw
tailor
weaver

And this collection of word "pieces":
al
bums
bar
ely
be
foul
con
vex
here
by
jig
saw
tail
or
we
aver

Find all six letter words from the dictionary using the collection of pieces. In other words, iterate through the pieces to find the wholes:
al + bums => albums
bar + ely => barely
be + foul => befoul
etc …

Print the attempts used to find the whole:
albar != albums
alely != albums
albe != albums
etc …