1. You are given an array of positive integers. you want to check
whether there is a triplet(a,b,c) such that a + b = c

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 2.Given a number n & a prime p(< n) consider the binomial coefficient
s
C(n,0) , C(n,1) , C(n,2), ... ,C(n,n) one wants to find out how many
coefficients are not divisible by p. (try for a log(n) algo.)

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 3.A chess board (NxN) is given. you want to place knights such that n
o
attack each other & no 2 control the same position.
|--|--|--|--|--|--|--| | A| | | | | | B| |--|--|--|--|--|--|--| | | |a

| | *| | | |--|--|--|--|--|--|--| | | | | | | | b|
|--|--|--|--|--|--|--| in the above grid the 2 knights(position marked

A & a) are attacking each other & the 2 knights (position marked B & b

) control the same position(marked Bp addresses baahar bo chummi
header iitians mail mankars sendits.sh slocat.sh time xaa xab xac xad
xae xaf xag xah xai xaj xak xal xam xan); you have to give the maximu
m
no. of knights that u can place.

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 4.Given a string one wants to find out the shortest even palindrome
starting from the first index. e.g 1.aabbaa now there are 2 even
palindromes(starting from the 1st index) aa & aabbaa. thus the answer
is aa. 2.abb although bb is a palindrome but it doesn't start from 1st

index thus answer -1.