You are given N normal dice. Each die has dimensions 1x1x1. You can form four vertical columns of dice on the table, with base area up to 2x2 but total visible surface area of the structure must be the smallest possible.

A face of a die is visible if it does not touch the ground or another die. Each face of a dice has a value from 1 to 6. Your job is to stack the dice in such a way that the structure has minimum surface area and sum of values of visible faces is maximum. For Eg, 2 die on the table with face having value 1 touching the table and face having value 2 touching each other will have visible faces as 3,4,5,6 for each of them and their sum is 2\*(3+4+5+6)=36.

You have to take the number of dice N as input and print the maximum sum of values from visible faces.

For reference, possible structures having 9 dice, 5 dice and 3 dice are shown.

 

