Problem A: Running Average

Professor Cloud is a climate scientist. He analyzes temperature data to look for evidence of global warming. He has annual average temperatures for some number of years, but this data is noisy due to short-term weather variations. So he would like to compute running averages, that is for each year to compute the average of the last 4 preceding years. Write a program that will do that for Professor Cloud.

Input Specification

There may be several datasets in the input file. Each data set starts with one line specifying the number *n* of years in the dataset (where *n* is at least 4 and at most 1000), followed by *n* lines, each line with a temperature (integer) for one year, listed in chronological order. All temperatures are positive integers. The input ends with a line containing 0.

Output Specification

For each data set print the running averages, rounded down to the nearest integer, one number per line. The output for each data set should be followed by an empty line. Start computing the averages at the fourth number in the sequence. So if the data set has *n* numbers, the output will have *n*-3 numbers.

Sample Input	Output for Sample Input
5 60 56 80 41 80 8 40 65 90 87 34 88 58 66 0	59 64 70 69 74 66 61