Problem D. Different Sums

Input file:	*standard input*
Output file:	*standard output*
Time limit:	1 second
Memory limit:	256 mebibytes

A *subsum* of a sequence is a sum of one or more consecutive elements of this sequence.

You are given an integer N. Your task is to make a sequence of positive integers which are not greater than $3 \cdot (N + 6)$ such that all its $N \cdot (N + 1)/2$ subsums are different from each other.

Input

There are several test cases.

The first line of input contains an integer T, the number of test cases ($1 \le T \le 200$).

Each of the next T lines contains an integer N, the length of the sequence ($1 \le N \le 2000$).

Output

For each test case, print one line with N space-separated positive integers representing your sequence.

If multiple solutions exist, any of them will be accepted.

Example

standard input	standard output
2 2 5	1 2 1 2 4 8 16