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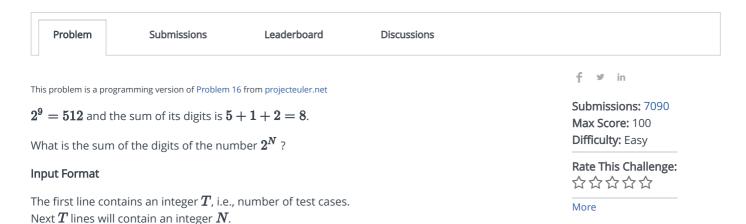




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Project Euler #16: Power digit sum





Constraints

- $1 \leqslant T \leqslant 100$
- $1 \le N \le 10^4$

Output Format

Print the values corresponding to each test case.

Sample Input

3

4

Sample Output

8 7 11

Explanation

- $2^3 \Rightarrow 8$, sum of digits is 8.
- $2^4 \Rightarrow 16$, sum of digits is 7.
- $2^7 \Rightarrow 128$, sum of digits is 11.