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MAIN72 - Subset sum

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You are given an array of N integers. Now you want to find the sum of all those integers which can be expressed as the sum of at least one subset of the given array.

Input

First line contains T the number of test case. then T test cases follow, first line of each test case contains N (1 \leq N \leq 100) the number of integers, next line contains N integers, each of them is between 0 and 1000 (inclusive).

Output

For each test case print the answer in a new line.

Example

```
Input:
2
2
0 1
3
2 3 2

Output:
1
21
```

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shahzada (/users/rahul20111995): 2017-03-06 15:27:52 Nice dp.

madhavgaba (/users/madhavgaba): 2016-12-29 18:00:39 printf-scanf AC 0.01 cin-cout AC 0.02 ios::sync_with_stdio(false) AC 0.01

Last edit: 2016-12-29 18:01:20

aegon_c (/users/aegon_c): 2016-12-06 08:21:39 tighter constraints.. so use InputReader in case of java..

shubh809 (/users/shubh809): 2016-10-21 19:41:39 whop one more dp.

Autorun (/users/autorun): 2016-10-05 17:23:48

TLE with python 3, even with some optimizations in I/O.

Amola Singh (/users/serendipity_03): 2016-06-28 22:41:35 Finally 50th! Nice problem.

a_thinker (/users/a_thinker): 2016-06-27 10:05:51 can be solved even without dp

anuj0503 (/users/anuj0503): 2016-06-17 21:00:55 After this try BADXOR of spoj !!

sneh sajal (/users/snehsajal): 2015-12-26 10:59:31 good Dp ;)

gullu_mishra (/users/gullu_mishra): 2015-11-06 00:40:08

AC in 1 go..learned concept of subset sum using dp :) century 100th ;)

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Added by: Mahesh Chandra Sharma (/users/mcsharma1990)

Date: 2011-03-13

Time limit: 0.211s
Source limit: 50000B
Memory limit: 1536MB

Cluster: Cube (Intel G860) (/clusters/)

Languages: All except: ASM64

Resource: Own problem used for NSIT-

IIITA main contest #7

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