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Sereja and Votes

Problem code: SEAVOTE

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ALL SUBMISSIONS　　MY SUBMISSIONS　　SUBMIT

Read problems statements in Mandarin Chinese and Russian.

Sereja conducted a voting about **N** of his opinions. A_i percent of people voted for opinion number **i**.

This statistics is called valid if sum of all A_i is equal to **100**.

Now let us define rounding up of a statistics **A**.

- If A_i is not an integer, it will be rounded up to next integer.
- Otherwise it will be left as it is.

e.g. **4.1** became **5**, **4.9** became **5** but **6** will still be **6**.

Now let us consider a statistics **B** of size **N** in which each of B_i is an integer. Now he wants to know whether there exists some valid statistic **A** of size **N** (may contain real numbers) such that after rounding it up, it becomes same as **B**?

Input

- First line of input contain integer **T** - number of test cases.
- For each test, case first line contains integer **N** - number of opinions.
- Next line contains N integers B_1, B_2, ..., B_N as defined in the problem.

Output

For each test case, output **YES** or **NO** denoting the answer of the problem, i.e. if there exists some statistics **A** which could be rounded to make it **B**, print **YES** otherwise **NO**.

Constraints

- $1 \le T \le 50$
- $1 \le N \le 10000$
- $0 \le B_i \le 1000$

Sub tasks

- Subtask #1: **N ≤ 100** (50 points)
- Subtask #2: **original** (50 points)

Example

Input:
```
3
3
30 30 30
4
25 25 25 25
2
50 51
```
Output:
```
NO
YES
YES
```

Explanation

- In test case 1, There can not be any **A** which could be rounded up to get **B**. Hence answer is NO.
- In test case 2, In this case **A** = {25, 25, 25, 25}. After rounding we get {25, 25, 25, 25} which is equal to **B**. Hence answer is YES.
- In test case 3, **A** = {49.5, 50.5}. After rounding up we get {50, 51} which is equal to **B**. Hence answer is YES.

Author:	sereja
Tester:	shiplu
Date Added:	1-12-2014
Time Limit:	1 sec
Source Limit:	50000 Bytes
Languages:	ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.8.1, CPP11, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

SUBMIT

SUCCESSFUL SUBMISSIONS

User	Score	Mem	Lang	Solution
alex_2oo8	100.000	0.2M	PAS fpc	View
avmnusng	100.000	0.2M	PAS fpc	View
ffffffff	100.000	0.2M	PAS fpc	View
shuxxkk	100.000	0.2M	PAS fpc	View
akatsuki555	100.000	0.2M	PAS fpc	View
odule	100.000	0.3M	PAS fpc	View
matmica	100.000	0.6M	PAS fpc	View
daophankhai	100.000	0.6M	PAS fpc	View
roman_derkach	100.000	1M	PAS fpc	View
anilkreddy	100.000	2.2M	C	View
rohitsinghal4u	100.000	2.2M	C	View
milrocks13	100.000	2.2M	C	View

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Comments

aalhadkulkarni @ *2 Jan 2015 03:55 PM*

How are passed submissions getting 0 points on this problem?

dpraveen @ *2 Jan 2015 04:22 PM*

@aalhadkulkarni: this is being corrected in a while.

zeus07 @ *2 Jan 2015 04:28 PM*

Can you please explain the given test case ???

dpraveen @ *2 Jan 2015 04:30 PM*

@zeus07: Yes, we will add explanation as soon as possible.

shubh_jain @ *2 Jan 2015 05:13 PM*

"where" is written in place of "whether"

gaurdian @ *2 Jan 2015 05:50 PM*

How many decimal places are allowed in A?

dpraveen @ *2 Jan 2015 06:07 PM*

@aksagarwal: correcting in a while.

dpraveen @ *2 Jan 2015 06:17 PM*

@s1.shubham: You are right. Our mistake, corrected.

Need help? Post a comment. But before that please spare a moment to read the guidelines.

Your name:
henviso

Comment: *

Save

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Directi

The time now is: 10:27:51 AM
Your Ip: 199.36.244.25

CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms, binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming** skills. Take part in our 10 day long monthly **coding contest** and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to Rs.20,000 and $700lots more CodeChef goodies up for grabs.

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Are you new to **computer programming**? Do you need help with algorithms? Then be a part of CodeChef's Forums and interact with all our programmers - they love helping out other programmers and sharing their ideas. Have discussions around **binary search, array size, branch-and-bound, Dijkstra's algorithm, Encryption algorithm** and more by visiting the CodeChef Forums and Wiki section.

CodeChef Community

As part of our Educational initiative, we give institutes the opportunity to associate with CodeChef in the form of Campus Chapters. Hosting **online programming competitions** is not the only feature on CodeChef. You can also host a **coding contest** for your institute on CodeChef, organize an **algorithm** event and be a guest author on our blog.

Go For Gold

The Go for Gold Initiative was launched about a year after CodeChef was incepted, to help prepare Indian students for the **ACM ICPC** World Finals competition. In the run up to the **ACM ICPC** competition, the Go for Gold initiative uses CodeChef as a platform to train students for the **ACM ICPC** competition via multiple warm up contests. As an added incentive the Go for Gold initiative is also offering over Rs.8 lacs to the Indian team that beats the 29th position at the **ACM ICPC** world finals. Find out more about the Go for Gold and the **ACM ICPC** competition here.

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