
The Samurais Who Say Ni

P72866_en

Legend explains that one day, during his quest for the Holy Chawan all along the island of Honshu, Shogun Aasaa's caravan was stopped on his way to meet Professor Ooku by two fearful samurais who were blocking their way. When his squire asked them to move aside to let the Shogun continue his march, the men replied with fearful words that made the warrior realize that his life was at risk.



N! !

(Just imagine that there are two samurais in the image.)

SAMURAI: Ni! Ni! Ni!

AASAA: Who are you?

SAMURAI: We are the Samurais Who Say... Ni!

AASAA: No! Not the Samurais Who Say Ni!

SAMURAI: The same!

SQUIRE: Who are they?

SAMURAI: We are the first among the infinite series of keepers of sacred words: Ni, San, Yon, Go, Roku,...

AASAA: Those who hear them seldom live long enough to tell the tale!

SAMURAI: The Samurais Who Say Ni demand a sacrifice!

AASAA: Samurais Who Say Ni, we are but simple travellers who seek the professor who lives beyond these woods.

SAMURAI: Ni! Ni! Ni! Ni!

AASAA: Oh, ow!

SAMURAI: We shall say Ni again if you do not appease us.

AASAA: Well, what is it you want?

SAMURAI: Looking at your ordered caravan, you are first carrying forty-nine coconuts...Nah! There are two of us, so we would not be able to split them evenly. Same for your nine Asian swallows that follow. But oh! You then have six shrubberies which we can split. They look nice, and not too expensive...Yes! We will keep them, you may go!

Shogun Aasaa then hurried his entourage past the Samurais Who Say Ni, but after one hour of progressing through the forest, they encountered a set of three samurais looming over them, pronouncing equally ominous words.

SAMURAI: San! San! San!

AASAA: Who are you?

SAMURAI: We are the Samurais Who Say... San!

AASAA: No! Not the Samurais Who Say San!

SAMURAI: The same!

SQUIRE: Who are they?

SAMURAI: We are the second among the infinite series of keepers of sacred words: Ni, San, Yon, Go, Roku,...

AASAA: Those who hear them seldom live long enough to tell the tale!

SAMURAI: The Samurais Who Say San demand a sacrifice!

AASAA: Samurais Who Say San, we are but simple travellers who seek the professor who lives beyond these woods, and we have already made a sacrifice of six shrubberies, which looked nice, and not too expensive, to the Samurais Who Say Ni.

SAMURAI: San! San! San! San!

AASAA: Oh, ow!

SAMURAI: We shall say San again if you do not appease us.

AASAA: Well, what is it you want?

SAMURAI: Looking at your ordered caravan, we do not care about your first forty-nine coconuts, since there are three of us and we would not be able to split them evenly. But you have the nine Asian swallows that follow, which we can split. They are bigger than European ones...Yes! We will keep them, you may go!

Shogun Aasaa then hurried his entourage past the Samurais Who Say San, but after fifteen minutes of progressing through the forest, they encountered a set of four samurais looming over them, pronouncing equally ominous words.

SAMURAI: Yon! Yon! Yon!

AASAA: Who are you?

SAMURAI: We are the Samurais Who Say... Yon!

AASAA: No! Not the Samurais Who Say Yon!

SAMURAI: The same!

SQUIRE: Who are they?

SAMURAI: We are the third among the infinite series of keepers of sacred words: Ni, San, Yon, Go, Roku,...

AASAA: Those who hear them seldom live long enough to tell the tale!

Squire: Yes, I have gotten that part by now...

SAMURAI: The Samurais Who Say Yon demand a sacrifice!

AASAA: Samurais Who Say Yon, we are but simple travellers who seek the professor who lives beyond these woods, and we have already made a sacrifice of six shrubberies, which looked nice, and not too expensive, to the Samurais Who Say Ni; and another sacrifice of nine Asian swallows, which were bigger than European ones, to the Samurais who say San.

SAMURAI: Yon! Yon! Yon! Yon!

AASAA: Oh, ow!

SAMURAI: We shall say Yon again if you do not appease us.

AASAA: Well, what is it you want?

SAMURAI: Looking at your ordered caravan, we cannot take your first forty-nine coconuts, since there are four of us and we would not be able to split them evenly...The same applies to your second three Holy Hand Grenades of Kyoto, and to the two tree-cutting herrings that follow, and to the one sword distributed by a strange women lying in a pond, which clearly is no basis for a system of government...Yon! You do not have anything for a proper sacrifice to the Samurais Who Say Yon! You may go, but do not ever dare to pass through here again.

Shogun Aasaa then hurried his entourage past the Samurais Who Say Yon, but after six minutes and forty seconds of progressing through the forest, they encountered a set of five samurais looming over them, pronouncing equally ominous words, Go!, and they could pass without a sacrifice from their perfectly sorted caravan.

Shogun Aasaa then hurried his entourage past the Samurais Who Say Go, but after three minutes and forty-five seconds of progressing through the forest, they encountered a set of six samurais looming over them, pronouncing equally ominous words, Roku!, and they could pass without a sacrifice from their perfectly sorted caravan.

Shogun Aasaa then hurried his entourage past the Samurais Who Say Roku, but after two minutes and twenty-four seconds of progressing through the forest, they encountered a set of seven samurais looming over them, pronouncing equally ominous words, Nana!, and they took their forty-nine coconuts as a sacrifice.

And thus, after one hour, thirty-eight minutes, and roughly forty-one seconds of traversal through the forest, Shogun Aasaa was able to leave behind the infinite series of keepers of sacred words, while still carrying their three Holy Hand Grenades of Kyoto, their two tree-cutting herrings, and their one sword distributed by a strange women lying in a pond, which clearly is no basis for a system of government but which Aasaa continued using as such. A total of six objects.

They eventually reached the hut of Professor Ooku. He listened attentively to the account of their ordeal, nodding while he wondered how he could use that unlikely story in the future...

Input

Input consists of several cases. Each case starts with the number n of object types the caravan is carrying before meeting the Samurais Who Say Ni. Follow n values $m_1 \dots m_n$ with the number of objects of each type, in the order in which they will be inspected by the samurais. Assume $1 \leq n \leq 100$ and $1 \leq m_i \leq 1000$.

Output

For each case, print the number of objects that remain after going through all the groups of samurais.

Sample input 1

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6  49  9  6  3  2  1
1  42
2  3  3
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Sample output 1

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6
0
3
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Problem information

Author: Edgar Gonzalez

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