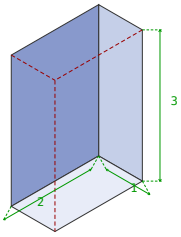
Storage box P24025_en

Professor Oak has a storage box of size $h \times w \times \ell$ (hight, width and length) in his garden. Although he is currently storing some soil and fertilizer in it, he secretly plans to use it to hide the ashes of the corpses of the students that he will catch cheating in the future. He already has a large number of small boxes for the ashes, all of size $3 \times 2 \times 1$. Note that each small box can be considered as the union of six $1 \times 1 \times 1$ cubes.

Given h, w and ℓ, can you tell if it is possible to completely fill the storage box with small boxes? We can arrange each small box inside the storage box in any direction parallel to the three dimensional axes.



Moreover, if it is possible to fill the storage box, can you provide a way?

Input

Input consists of several cases, each with h, w and ℓ, all natural numbers. You can assume $1 \leq h \times w \times \ell \leq 10^5$.

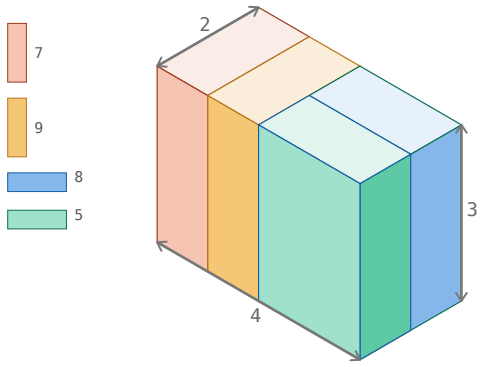
Output

For each case, if it is impossible to fill the storage box, just print "`NO`". Otherwise, print "`YES`" and $h \cdot (w + 1)$ lines as follows: Assign a different number between 1 and 10^5 to each small box, and print it exactly six times to describe the positions of the six $1 \times 1 \times 1$ cubes of the box. Each of the h levels of the storage box must be described with w lines, each with ℓ numbers. An additional line with 10 dashes ends each level. If there is more than one solution, you can print any one. Follow strictly the format of the sample output.

For instance, to the left of the fifth sample output for a box with heigth 3, width 2 and length 4 you can see a picture of the given solution.

Sample input

```
1 1 1
1 2 3
3 1 2
5 1 8
3 2 4
```



Sample output

```
NO
YES
42 42 42
42 42 42
----------
YES
100000 100000
----------
100000 100000
----------
100000 100000
----------
NO
YES
7 9 8 8
7 9 5 5
----------
7 9 8 8
7 9 5 5
----------
7 9 8 8
7 9 5 5
----------
```

Problem information

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