Make Ends Meet

Develop a Python code to determine whether household income is sufficient to cover monthly cost of living based on the number of adults and children of a family. The monthly cost of living for an adult is approximately RM500, while a child RM300

Input

An integer n identifies the number of cases in the first line. In subsequent n lines, each provides trifold information: a household monthly income in Malaysian Ringgit, the number adults and the number of children in the family

Output

For each case, the output will either be Yes if the difference between monthly household income and monthly cost of living non-negative, No otherwise

Example

Input:
4
2345 2 3
2500 4 2
3998 2 10
1600 2 2
Output:
Yes
No
No
Yes