```java
import java.util.*;
public class Main
{
 public static void main(String[] args) {
  Scanner sc=new Scanner(System.in);
  int t=sc.nextInt();
  int n,x,y;
  while(t-- > 0){
     n=sc.nextInt();
     x=sc.nextInt();
     y=sc.nextInt();

     int nn=(n+1)*y;
     if(nn >= x){
        System.out.println("YES");
     }else{
        System.out.println("NO");
     }
  }
 }
}
```