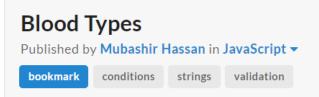
โจทย์ช้อที่ 4



introductions



When a person receives a blood transfusion, it is essential to make sure that the donor's **blood type** is compatible with the receiver's blood type. Receiving a blood type that is not compatible with your own can be life-threating, so blood banks always make sure to note the type of blood they receive from donors so that they can ensure a safe transfusion.

Blood types are named according to three factors: presence of **antigen A**, presence of **antigen B**, and presence of **Rh factor**. If antigen A is found, the blood type includes the letter "A". If antigen B is found, the blood type includes the letter "B". And if the Rh factor is present, the blood type ends with "+"; otherwise, it ends with "-". If neither antigen A nor antigen B are found, the blood type includes the letter "O".

For example, a person with only antigen A would have the blood type "A-". A person with both antigens A and B and the Rh factor would have blood type "AB+", and a person wih only the Rh factor would have blood type "O+".

The rules for giving and receiving blood are as follows:

- A person with antigen A may only give blood to another person with antigen A.
- A person with antigen B may only give blood to another person with antigen B.
- A person with the Rh factor may only give blood to another person with the Rh factor.
- A person with none of the above factors (O-) can give blood to anyone.

Write a function that takes in a donor's and receiver's blood types as strings and returns whether or not the donor can safely give blood to the receiver, according to the rules above.

Examples

```
canGiveBlood("O+", "A+") → true
canGiveBlood("A-", "B-") → false
canGiveBlood("A-", "AB+") → true
```

Notes

- All letters are capital.
- Each blood type will be one of the following strings: "O+", "O-", "A+", "A-", "B+", "B-", "AB+", "AB-".

SUGGEST EDIT

ผู้รับ	ผู้ให้							
	0-	0+	A –	A+	B-	B+	AB-	AB+
0-	1	X	X	X	X	X	X	X
0+	1	1	X	X	X	X	X	X
A -	1	X	1	X	X	X	X	X
A+	1	1	1	1	X	X	X	X
B-	1	X	X	X	1	X	X	X
B+	1	1	X	X	1	1	X	X
AB-	1	X	1	X	1	X	1	X
AB+	1	1	1	1	1	1	1	1

```
assign > JS Blood_Types.js > ...
  1 ∨ function canGiveBlood(donor, receiver) {
           if(donor==receiver){
               return donor==receiver;
           }else if(donor == "0-"){
               return true;
           }else if(receiver=="AB+"){
               return true:
           }else if((receiver=="AB-")&&(donor.search("-")!=-1)){
               return true;
           }else if(receiver=="A+"&&(donor=="O+"||donor=="A-")){
 10 V
 11
               return true;
           }else if(receiver=="B+"&&(donor=="0+"||donor=="B-")){
 12 V
               return true;
 13
 14 V
           }else{
 15
               return false;
 17
 18
       }
```

```
21
     console.log(canGiveBlood("0+", "A+"))
22
     console.log(canGiveBlood("A-", "B-"))
console.log(canGiveBlood("A-", "AB+"))
23
24
     console.log(canGiveBlood("AB-", "B-"))
25
     console.log(canGiveBlood("AB+", "A+"))
      console.log(canGiveBlood("0-",
27
     console.log(canGiveBlood("A-", "0-"))
28
     console.log(canGiveBlood("0+", "AB-"))
29
     console.log(canGiveBlood("0-", "AB+"))
30
     console.log(canGiveBlood("AB+", "AB+"))
31
     console.log(canGiveBlood("0+", "0-"))
32
      console.log(canGiveBlood("0-", "AB-"))
33
```

Run

```
PS C:\Users\Admin\Desktop\JSpilot\JavaScript\assign> node .\Blood_Types.js
true
false
true
false
false
true
false
true
false
false
true
false
true
true
true
Co:\Users\Admin\Desktop\JSpilot\JavaScript\assign>
```