String Rotation

- Here we are given two string S_1 & S_2,
- we assume we have is Substring Function with us but we can use it only once
- So, we have to find if S_1 & S_2 are rotation of string like "waterbottle" & "erbottlewat".

waterbottle erbottlewat

waterbottle rbottlewater

- As we donot know how much the string was rotated but we know the if first part is x and second is y so, x = wat, y = erbottle

$S_1 = xy$, $S_2 = yx$

and

This blowed my mind →  $S_2 + S_2 = y\,xy\,x$ ↓ so here is the original string if true

- So check if S_1 a sa substring in (S_2+S_2)

Good Question