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Day 19

Hard Questions

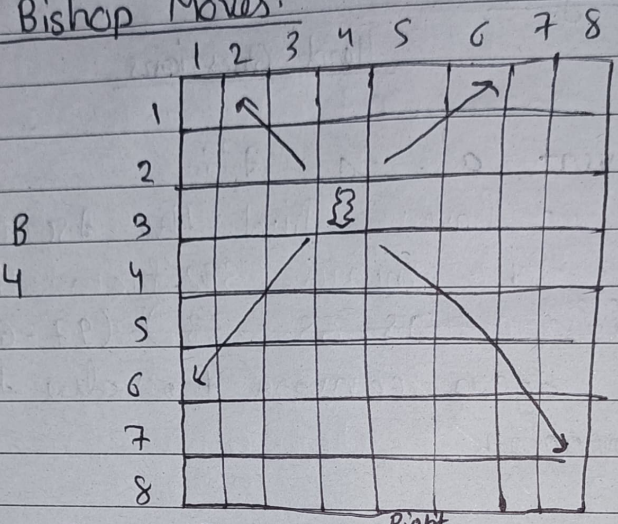
* Convert 'a' to 'A':
=) First we have to find the ASCII value of 'a' then minus 32 from the value.
~~Because~~ Because ~~(98-65=33)~~ (97-65=32)
=) Now again convert the value ~~to~~ into character.

* **Armstrong No.:**
=) First we have to find the no. of digit.
=) Then power each digit to the count value.
=) Then check both number & our new answer.
=) If it is equal then ~~yes~~ it is A.N.
=) Otherwise not.

* **Number of trailing zero? in fact:**
=) We know that in any number zero is formed by $10 \rightarrow 5 \times 2$.
=) So, we have to find no. of 5.

* **Rectangle:**
=) You have to check valid rectangle that means you have four number a, b, c, d then check ~~any two eqv~~ with properties of rectangle.

Bishop Moves:



A B
3 4

This is for Lower ~~Left~~ Right side (A, B)

Starting 3 4
end point(R) 7 8
~~end point(L) 6 1~~
3 4
8 8
5 4 → min steps

min(8-A, 8-B)

This is for lower left side (end = (8,1)

3 4
8 1
5 3 → min

min(8-A, B-1)

min (A-1, B-1) (for upper left)
min (A-1, 8-B) (for upper right)

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* Nim Game:

⇉ You can only increase number upto three increment just like n = 5 the 6, 7, 8 or 6, 7 or 6.

=⁾ Here, you have to maintain the number in the factor of 4 —

=⁾ You will only lose if the number is itself the factor of 4.