Frenchion: harhvalue = I harhvalue + (char = t'i) "1.9 for each
character in the string, updating t'i' = (t'i' *t) "1.9.9.

Harh function explanation -

Step 1) - Initialisation

- · Stort with 'hach Value ~ 0'.
- · Set 'tpower = 1' (this represents t', the current OF't')

Step 2) - Iterate through each character

· For each character in the string, update the hack value wing:

hautvalue = (hautvalue + (char nti) 1.9) 1.9

Here, 'char' is the fille value of the character this is the current power of 't' and 'q' is a large prime number to keep hack values within a manageable range.

Step 32- Update the power of Iti.

· After processing each char, update 't'i' to this!:

· 09,

0

0

U

U

U

O

Ú

U

- " Text: IADAD?
- · Patturn: IAN?
- · laranetus:
 - · t 31
 - · 9 ~ 1000000007

Rolling hash for IABAN,

- 1). Initialise Itpower = 1, and I harm value = 0'.
- 2). Colculate the hash value for 1st window "As":
 - · 1A 1 (ASCER 65):
 - · han Valu = (0+ (65 × L) y. 1000000007) y. 1000000007 = 2111°
 - · From ~ (31 < 3T) 7.100000004 = 96T,
- The hash value for window "An" is 2111.
- 3). Now, voll the hack over text -
 - · Remove contribution of the owngoing charand add the incoming charis contribution for each subsequent window.

- · Remove 14, (AI(EE 65)-
 - · harrvalu = (2111 ~ 65 ~ 911 /. 1000000007 + 100000007).
 - · Our gaing contribution = (65 = 961) 1,1000000007 = 62465?
 - · harrvalue = 12111 ~62466 +100000007)1.1000000007 = 9376543653.
- · Add A' (AICER 65) -
 - · halhvalm ~ (937664663 ~ 31466) 1.10000000007 ~ 6500000000.

Hack for "BA". is 650000005 (no match).

Third window "An",

- · Remove 10' (A) CEC 66)
- " Add 'D' (ASCRE (6)
 - · hourvalue = (649)6579-31+61).1.1000000007) -2013010

0

C

0

Hack for "An is 2111 (mater town ?).