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1831110

1. Given that,
$$\Delta = \{0,1\}$$

$$B = \{0,1\}$$

$$\Delta : aab$$

$$\Delta = \{0, b, c\}$$

$$D = \{0, 1, 2, 3, 4, 5\}$$

$$B = (0, 1)$$

(a) Two string from each Alphabet _

d: aabbecabe, oet aabbecabache

D: 201543,412035

B: 001101, 01010011

(b)

7 61 050	1000	1		
String	suffix	Prietix	subsequence	Sub string
aabbecabe	cabe	aabb	cah	bbec
aabbeeaba	back	aabb	baba	beca
201593	543	201	2143	154
412035	035	412	4105	123
001101	GI	00	0 11	110

0/010011 110 010 0101 0100 (C) given that, $D = \{0,1,2,3,4,5\}$ d = {a,b,c} 02d = {0,1,2,3,4,5} {0,1,2,3,4,5} {a,6,6} = 200,01,02,03,04,05,10,11,12,13,14,15,20 21,22,23,29,25,30,31,32,33,34,35,40,41, 92, 43, 44,45, 50,51,52,53, 54,553 {a,b, 9000,010,020,020,030,040,050,100,1100 13a, 19a, 15a, 20a, 21a, 22a, 23a, 29a, 31a, 32a, 33a, 34a, 35a, 40a, 41a a, 45a, 56a, 51a, 52a, 53a 016,026,036,046,056 146, 156, 206, 216, 226, 316, 326, 336, 346,34

5. Let $A = \{a, e, i, o, u, p, a, \pi, s, +\}$ and $(a, e, i, o, u, p, a, \pi, s+) = (o, 1, 2, 3, 4, 5, 6, 7, 8, 9)$

() Priest

Let & = "Priest", 2 = 572189

Hence, u, =5, 2=7, 2=2, 4=1

MS=8, N6= 9

5+7+1 + 25+7+2 + 2 5+7+2+1

25+7+2+1+8+0+5 = 25 + 211 + 216 + 218 + 27 + 237 - 1 = 1.375735071×1011

(b) aviet

Let E = "quiet ", n = 164219"

Hence $u_1 = G$, $u_2 = G$, $u_1 = 2$, $u_{1} = 2$, $u_{1} = 2$, $u_{2} = 3$ $u_{1} = 2$, $u_{2} = 2$, $u_{3} = 3$ $u_{1} = 2$, $u_{4} = 1$, $u_{5} = 3$ $u_{1} = 2$, $u_{1} = 2$, $u_{1} = 2$, $u_{2} = 3$ $u_{3} = 2$, $u_{4} = 1$, $u_{5} = 3$ $u_{5} = 3$ $u_{1} = 2$, $u_{2} = 2$, $u_{3} = 3$ $u_{1} = 2$, $u_{2} = 2$, $u_{3} = 3$ + 26+4+2+1+9+4 -1

26+211+214+216+226-1

4.71928×107

@ 9. [Au] IF X + GOTOB, I, -> < 16 69,3> - 416 , 3583 > -469 73 = 23+1 I2 > LOLI, 6>=(0,25) IF 73 + GOTOE [3 -> 20, 27, 67 = (0, 1663) [B2] X = X, -1 14 -> 27, 22,3>= 27,27) - 7039 Y = 7+1 [5 -> <0, <1,0>=<0,1>=<0,1> Z3 = Z3+1 [6-720, 2467 = 20,25) 1 F Z3 70 GOTO AG I7 -> LO, L18, 67 = 60, 342 - 6815742 Program 2 469.696.511.350.53326.770 (1+1350 176815792 -1.

$$\begin{aligned}
3+1 &= 4(7+1) = 4(8) = 209.2 \\
&= (104.2+1).2 \\
&= (52.2.2+1).2 \\
&= (26.2.2.2+1).2 \\
&= (13.2.2.2+1).2 \\
&= ((6.2+1).2^4+1).2 \\
&= ((3.2.2+1).2^4+1).2 \\
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&= (2+1).$$

42 = 6 y3 =7 UL = 8 -81-1 = €4 = € $u_3 = y_3 - y_2 - 1 = 0 = 0$ ng = yy 100-83.1 =0 ->a - string beau.

(b) 3 = 3505+1 = 351 = (172.2+1) = ((87.2+1).2+1) = (((43.2+1).2+1).2+1) = ((((21.2+1).2+1).2+1).2+1)

= ((((((10.2+1). 2+1). 2+1) 2+1) 2+1) $= (((((2^{2}+1), 2+1), 2+1), 2+1), 2+1), 2+1), 2+1)$ $= ((((((2^{4}+1)^{2}+1), 2+1), 2+1), 2+1), 2+1), 2+1)$ $= ((((((2^{4}+1)^{2}+1), 2+1), 2+1), 2+1), 2+1)$ = (((1C 5.2.2+1).2+1).2+1).2+1).2+1).2+1 -(11(25+23+2+1)2+11)2+11)2+11- (((26 + 24 + 22 + 21+1) 2+1) 2+1) 27 +25 L 23 + 27 + 2+1) 2+11 - 29+26+24+23 +22+21+20 50, 9, =0 182 = 1 83 = 2 184 = 3 75=9, 96=6 -97=8 $\mu, y, = 0 \longrightarrow a$ M L= 82-81-1=0 C

 $u_3 = y_3 - y_2 - 1 = 0 - 7q$ $u_4 = y_4 - y_3 - 1 = 0 - 7q$ $u_5 = y_5 - y_4 - 1 = 0 - 7q$ $u_6 = y_6 - y_5 - 1 = 0 - 7q$ $u_7 = y_7 - y_6 - 1 = 0 - 7q$ String aaaaabb