

МАРТАСОВИЛБЯ  
baccacbabdd

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Задача 7:

Код LZ77:

| Словарь (10 символов) | Буфер (6 символов) | Код                         |
|-----------------------|--------------------|-----------------------------|
|                       | baccac             | $\langle 0, 0, b \rangle$   |
| b                     | accacb             | $\langle 0, 0, a \rangle$   |
| ba                    | ccacba             | $\langle 0, 0, c \rangle$   |
| ba□                   | □acbab             | $\langle 2, 1, a \rangle$   |
| ba□ca                 | □babbd             | $\langle 2, 1, b \rangle$   |
| b□ccacba              | □bbdd              | $\langle 1, 1, b \rangle$   |
| □accacbab             | □dd                | $\langle 0, 1, d \rangle$   |
| accacbab□             | □                  | $\langle 9, 1, " " \rangle$ |
| ccacbabdd             |                    |                             |

$$L_{\text{noc.}} = \frac{2(\log_2 10 + 8) \cdot 8}{2} = 128 \text{ Sum}$$

$$L_{\text{noc.}} = (\lceil \log_2 10 \rceil + \lceil \log_2 (6+1) \rceil + 8) \cdot 8 = 120 \text{ Sum}$$

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KOA, LESS:

| Словарь (10 символов)    | Буквы (6 символов) | KOA      |
|--------------------------|--------------------|----------|
|                          | baccac             | 0, b     |
| b                        | accac b            | 0, a     |
| ba                       | ccac ba            | 0, c     |
| ba <b>a</b>              | <b>a</b> ac bab    | 1, <2,1> |
| ba <b>ac</b>             | <b>a</b> c bab b   | 1, <1,2> |
| <b>b</b> a c c a c       | <b>b</b> a b b d d | 1, <0,1> |
| <b>b</b> a c c a c b a   | <b>b</b> b d d     | 1, <0,1> |
| <b>b</b> a c c a c b a b | <b>b</b> d d       | 1, <0,1> |
| b a c c a c b a b b      | d d                | 0, d     |
| a c c a c b a b b d      | <b>d</b>           | 1, <9,1> |
| c c a c b a b b d d      |                    |          |

KOA

N°

0

1

2

3

4

5

6

7

8

L<sub>noe</sub>

$$L_{\text{noe}} = (1+8) \cdot 4 + (1+2 \cdot \lceil \log_2(10) \rceil) \cdot 6 = 90 \text{ Sum}$$

$$L_{\text{noe}} = 4 \cdot 9 + 6 \cdot 7 = 78 \text{ Sum}$$

$$L_{\text{noe}} = (1+8) \cdot 4 + (1+2 \cdot \lceil \log_2(10) \rceil) \cdot 6 = 90 \text{ Sum}$$



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Коды LZ78

| N° | Слова | Код                    |
|----|-------|------------------------|
| 0  | " "   | - -                    |
| 1  | b     | $\langle 0, b \rangle$ |
| 2  | a     | $\langle 0, a \rangle$ |
| 3  | c     | $\langle 0, c \rangle$ |
| 4  | ca    | $\langle 3, a \rangle$ |
| 5  | cb    | $\langle 3, b \rangle$ |
| 6  | ab    | $\langle 2, b \rangle$ |
| 7  | bd    | $\langle 2, d \rangle$ |
| 8  | d     | $\langle 0, d \rangle$ |

$$L_{\text{код}} = (\lceil \log_2 8 \rceil + 8) \cdot 8 = 88 \text{ сум}$$

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Код LZW:

| N°             | Символы      | Код                    |
|----------------|--------------|------------------------|
| 0-255          | ASCII        | —                      |
| 256            | ba           | <0,b>                  |
| 257            | ac           | <0,a>                  |
| 258            | cc           | <0,c>                  |
| 259            | ca           | <0,c>                  |
| 260            | acb          | <257>                  |
| 261            | bab          | <256>                  |
| 262            | bb           | <0,b>                  |
| 263            | bd           | <0,b>                  |
| 264            | dd           | <0,d>                  |
| <del>265</del> | <del>d</del> | <del>&lt;0,d&gt;</del> |
| <u>265</u>     | d            | <0,d>                  |

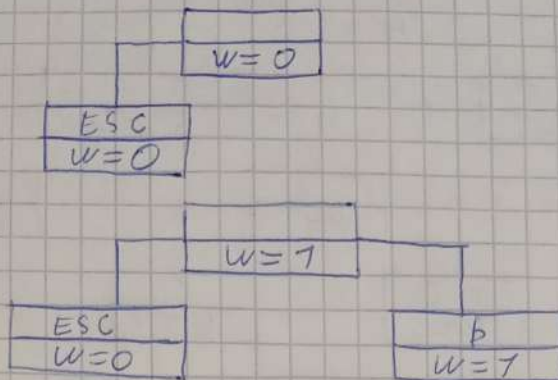
$$L_{\text{noc.}} = \lceil \log 264 \rceil \cdot 10 = 90 \text{ бита}$$



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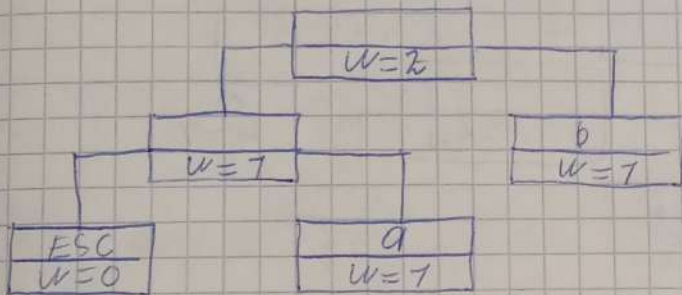
Задача 2

b :



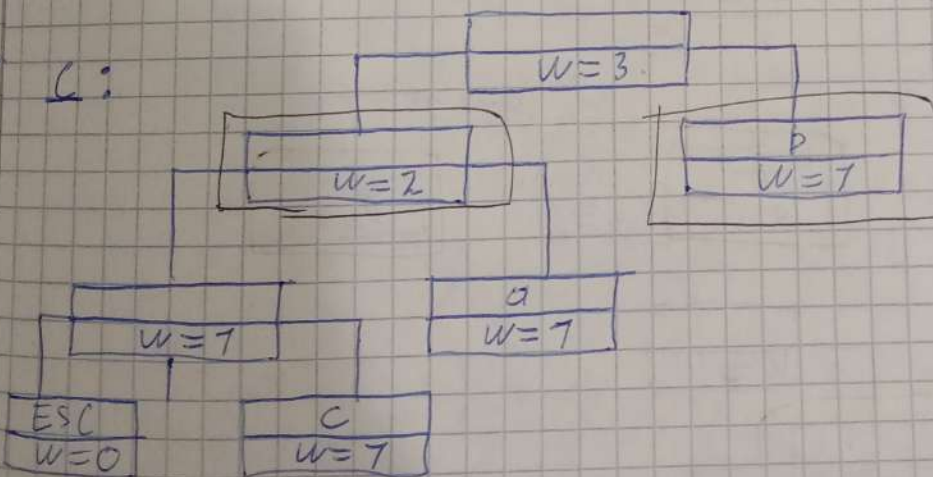
Код: ESC 'b' (8 Sum)

a :



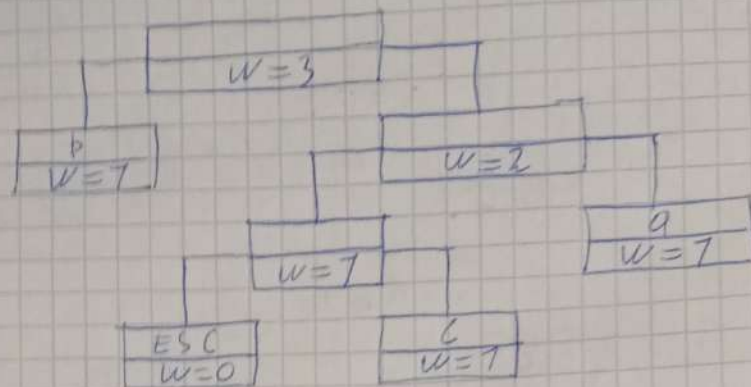
Код: 0 'a' (9 Sum)

c :

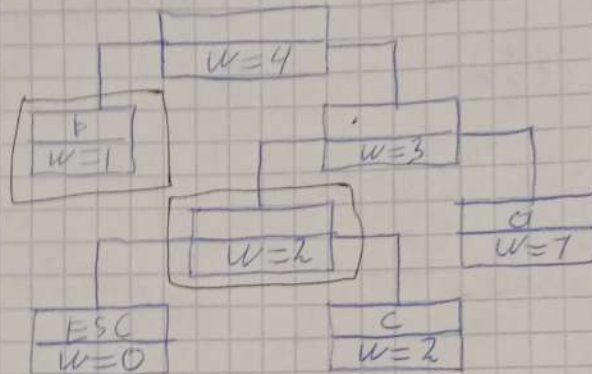


Код: 00 'c' (10 Sum)

Матрица Умк  
47-711

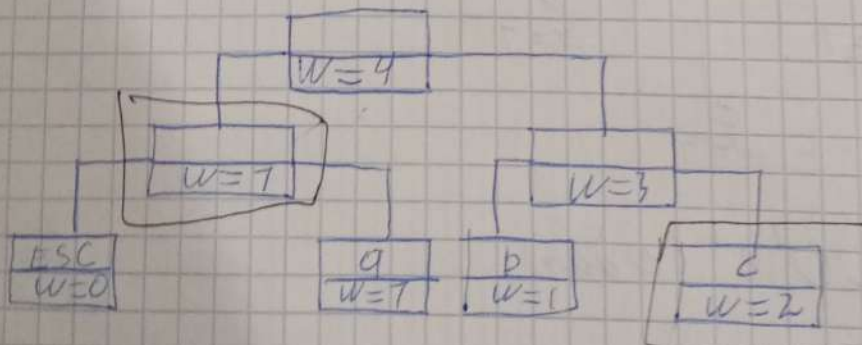
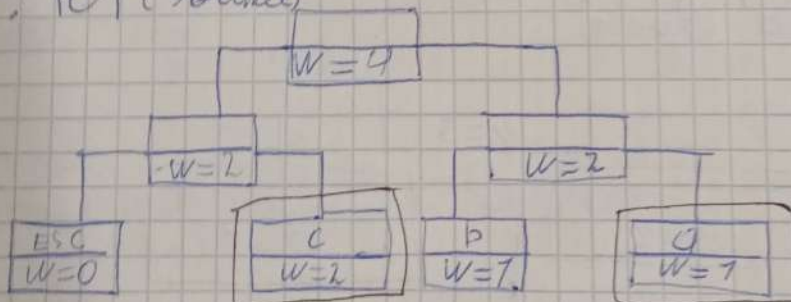


C:



Q:

KOA: 101 (3 source)

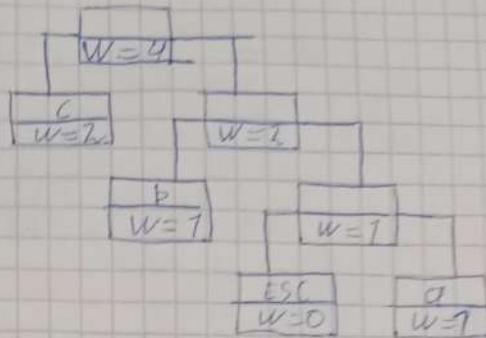


Матрица  
U

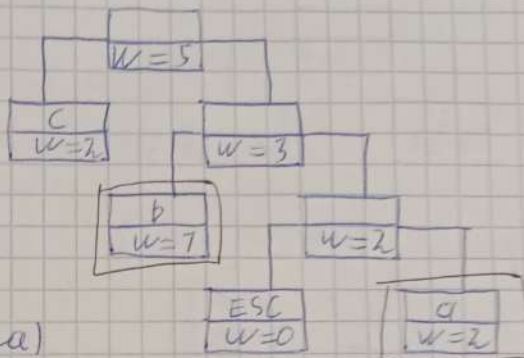
KOA



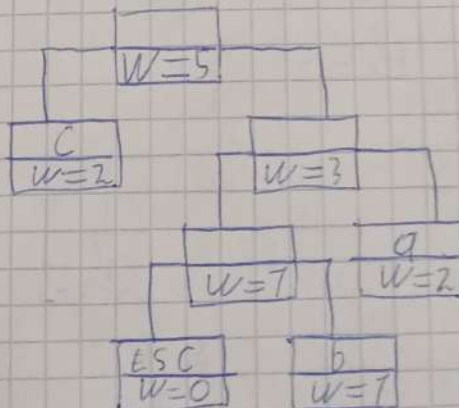
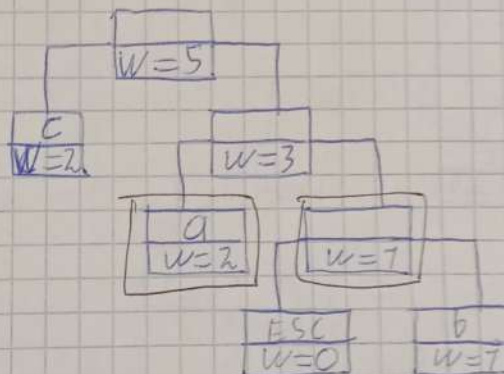
Например 1111  
111-711



11:

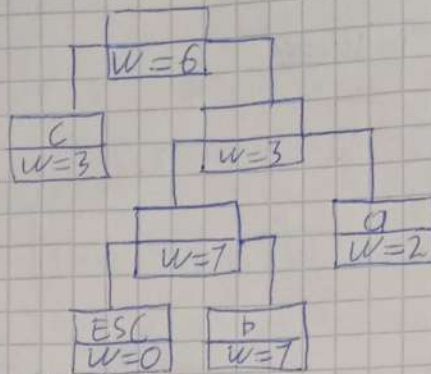


Код 111 (3 Juma)



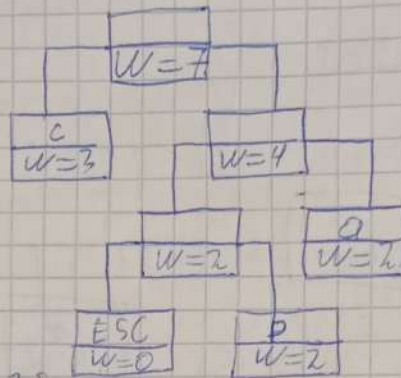
Матрица 11  
117-711

c:



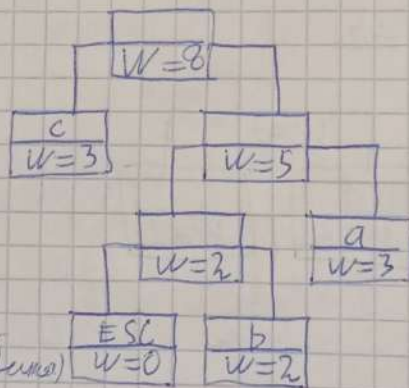
KOA: 01Sum

p:



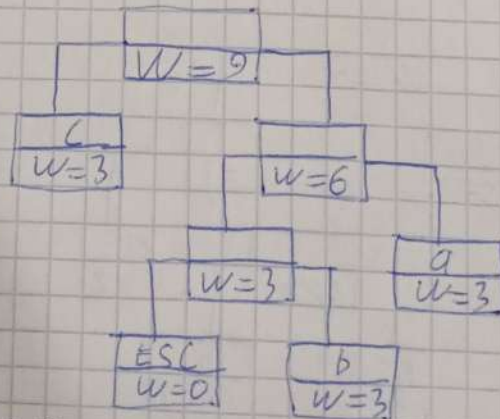
KOA: 1013Sum

a:



KOA: 1112Sum

b:



KOA: 1013Sum

b:

KOA

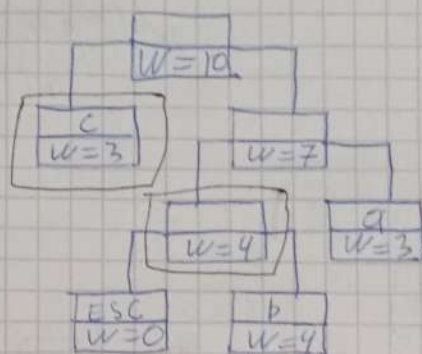
d:

Ko

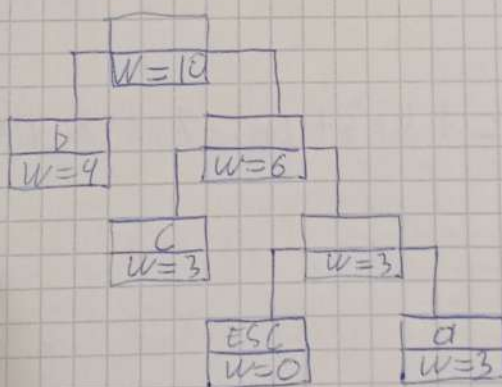
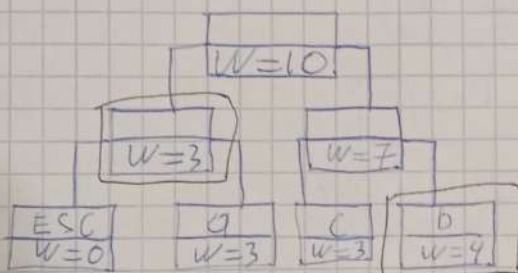
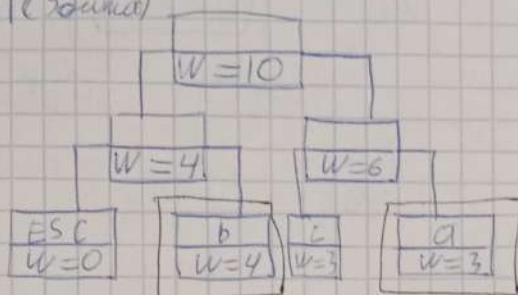


6. Указ  
1

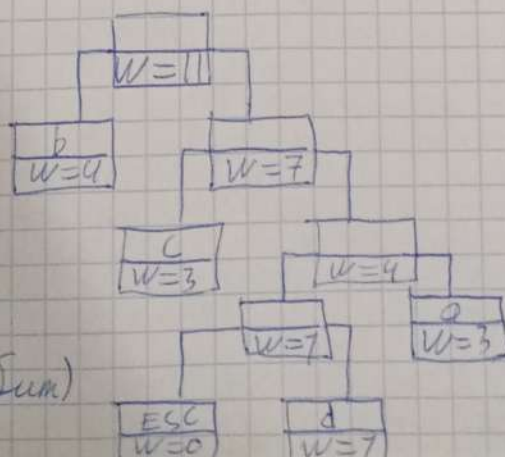
b:



Код: 10103 (Sum)



d:

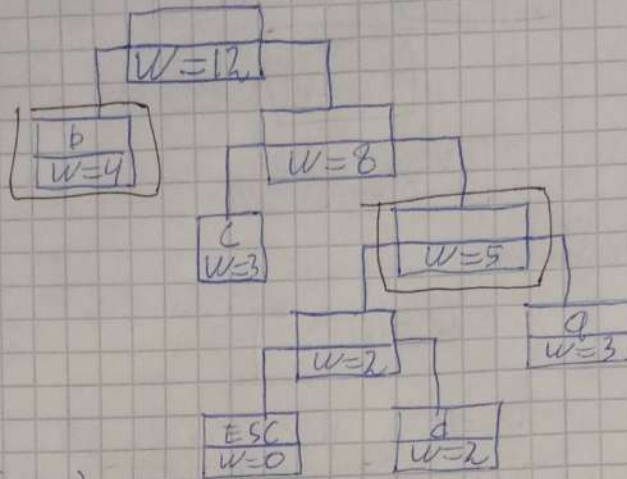


Код: 11011 (Sum)

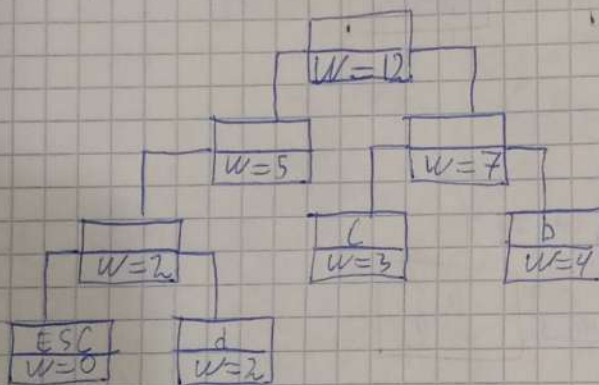
Маймаев  
Указ VII-III

Написать Tree  
117-711

d:



KOA: 1101 (4Suma)



$$L_{\text{noc.}} = 8 + 9 + 10 + 3 + 3 + 1 + 3 + 2 + 3 + 3 + 11 + 4 = 60 \text{ Sum}$$