Код Хаффмана

По заданной частоте символов построить код Хаффмана и расшифровать слово W. [1]

Задача 29.1. *Грачёв Дмитрий*

$W = 000011011011100001000$

$N(a) = 17,\ N(u) = 15,\ N(c) = 30,\ N(e) = 26,\ N(n) = 11,\ N(t) = 10,$

Задача 29.2. *Коломиец Ярослав*

$W = 0000010110110111000000$

$N(w) = 10,\ N(v) = 11,\ N(p) = 26,\ N(z) = 30,\ N(y) = 15,\ N(x) = 17,$

Задача 29.3. *Лапташкин Григорий*

$W = 11100100001000101101 11$

$N(Z) = 9,\ N(U) = 16,\ N(V) = 14,\ N(K) = 29,\ N(X) = 25,\ N(Y) = 10,$

Задача 29.4. *Майков Дмитрий*

$W = 000011100010100011111 1$

$N(u) = 17,\ N(a) = 19,\ N(c) = 32,\ N(q) = 28,\ N(r) = 13,\ N(s) = 12,$

Задача 29.5. *Оборин Дмитрий*

$W = 010000010110110000111$

$N(a) = 19,\ N(u) = 17,\ N(c) = 32,\ N(e) = 28,\ N(n) = 13,\ N(t) = 12,$

Задача 29.6. *Переверзев Михаил Ильич*

$W = 000000001011011011 1001$

$N(w) = 11,\ N(v) = 12,\ N(p) = 27,\ N(z) = 31,\ N(y) = 16,\ N(x) = 18,$

Задача 29.7. *Ратников Матвей*

$W = 111000000001000111000000$

$N(Z) = 9,\ N(U) = 16,\ N(V) = 14,\ N(K) = 29,\ N(X) = 25,\ N(Y) = 10,$

Задача 29.8. *Семенякина Елизавета*

$W = 000010001000011000 0111$

$N(u) = 16,\ N(a) = 18,\ N(c) = 31,\ N(q) = 27,\ N(r) = 12,\ N(s) = 11,$

[1] Просветов Г.И. Дискр.математика. М.:Алфа-Пресс. 2009. с. 116 .

Задача 29.9. *Снегирев Иван*

$W = 111101110010110110111$

$N(a) = 17,\ N(u) = 15,\ N(c) = 30,\ N(e) = 26,\ N(n) = 11,\ N(t) = 10,$

Задача 29.10. *Толушкин Ростислав*

$W = 00000100101101100000000$

$N(w) = 10,\ N(v) = 11,\ N(p) = 26,\ N(z) = 30,\ N(y) = 15,\ N(x) = 17,$

Задача 29.11. *Турчанинов Никита*

$W = 100000100000110111111$

$N(Z) = 11,\ N(U) = 18,\ N(V) = 16,\ N(K) = 31,\ N(X) = 27,\ N(Y) = 12,$

Задача 29.12. *Чистяков Евгений*

$W = 000001110001111111001110$

$N(u) = 17,\ N(a) = 19,\ N(c) = 32,\ N(q) = 28,\ N(r) = 13,\ N(s) = 12,$

Задача 29.13. *Чугреев Никита*

$W = 010001110010100001110$

$N(a) = 16,\ N(u) = 14,\ N(c) = 29,\ N(e) = 25,\ N(n) = 10,\ N(t) = 9,$