

Китайская теорема об остатках

Найти решение системы сравнений.

Задача Dm4.1.

333

$$\begin{aligned}x &= 4 \pmod{7} \\ x &= 3 \pmod{5} \\ x &= 3 \pmod{6}\end{aligned}$$

Задача Dm4.2.

333

$$\begin{aligned}x &= 1 \pmod{7} \\ x &= 7 \pmod{11} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.3.

333

$$\begin{aligned}x &= 2 \pmod{3} \\ x &= 1 \pmod{5} \\ x &= 0 \pmod{2}\end{aligned}$$

Задача Dm4.4.

333

$$\begin{aligned}x &= 2 \pmod{3} \\ x &= 3 \pmod{5} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.5.

333

$$\begin{aligned}x &= 6 \pmod{7} \\ x &= 1 \pmod{3} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.6.

333

$$\begin{aligned}x &= 3 \pmod{5} \\ x &= 1 \pmod{3} \\ x &= 0 \pmod{2}\end{aligned}$$

Задача Dm4.7.

333

$$\begin{aligned}x &= 2 \pmod{3} \\ x &= 2 \pmod{7} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.8.

333

$$\begin{aligned}x &= 1 \pmod{3} \\ x &= 2 \pmod{5} \\ x &= 0 \pmod{4}\end{aligned}$$

Задача Dm4.9.

333

$$\begin{aligned}x &= 6 \pmod{7} \\ x &= 1 \pmod{11} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.10.

333

$$\begin{aligned}x &= 1 \pmod{7} \\ x &= 1 \pmod{5} \\ x &= 0 \pmod{2}\end{aligned}$$

Задача Dm4.11.

333

$$\begin{aligned}x &= 1 \pmod{3} \\ x &= 3 \pmod{5} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.12.

333

$$\begin{aligned}x &= 1 \pmod{3} \\ x &= 1 \pmod{5} \\ x &= 2 \pmod{4}\end{aligned}$$

Задача Dm4.13.

333

$$\begin{aligned}x &= 4 \pmod{5} \\ x &= 6 \pmod{7} \\ x &= 5 \pmod{6}\end{aligned}$$

Задача Dm4.14.

333

$$\begin{aligned}x &= 1 \pmod{7} \\ x &= 6 \pmod{11} \\ x &= 1 \pmod{4}\end{aligned}$$

Задача Dm4.15.

333

$$x = 1 \pmod{3}$$

$$x = 2 \pmod{5}$$

$$x = 2 \pmod{4}$$

Задача Dm4.16.

333

$$x = 2 \pmod{3}$$

$$x = 4 \pmod{5}$$

$$x = 1 \pmod{2}$$

Задача Dm4.17.

333

$$x = 1 \pmod{3}$$

$$x = 2 \pmod{7}$$

$$x = 2 \pmod{4}$$

Задача Dm4.18.

333

$$x = 1 \pmod{5}$$

$$x = 6 \pmod{7}$$

$$x = 1 \pmod{2}$$

Задача Dm4.19.

333

$$x = 4 \pmod{7}$$

$$x = 1 \pmod{3}$$

$$x = 2 \pmod{4}$$

Задача Dm4.20.

333

$$x = 2 \pmod{7}$$

$$x = 3 \pmod{11}$$

$$x = 2 \pmod{4}$$

Задача Dm4.21.

333

$$x = 3 \pmod{5}$$

$$x = 4 \pmod{7}$$

$$x = 0 \pmod{2}$$

Задача Dm4.22.

333

$$x = 6 \pmod{7}$$

$$x = 2 \pmod{3}$$

$$x = 3 \pmod{5}$$

Задача Dm4.23.

333

$$x = 1 \pmod{3}$$

$$x = 3 \pmod{5}$$

$$x = 2 \pmod{4}$$

Задача Dm4.24.

333

$$x = 1 \pmod{7}$$

$$x = 7 \pmod{11}$$

$$x = 6 \pmod{9}$$

Задача Dm4.25.

333

$$x = 1 \pmod{3}$$

$$x = 2 \pmod{5}$$

$$x = 0 \pmod{2}$$

Задача Dm4.26.

333

$$x = 2 \pmod{3}$$

$$x = 4 \pmod{5}$$

$$x = 0 \pmod{2}$$

Задача Dm4.27.

333

$$x = 3 \pmod{5}$$

$$x = 2 \pmod{7}$$

$$x = 3 \pmod{6}$$

Задача Dm4.28.

333

$$x = 2 \pmod{5}$$

$$x = 1 \pmod{7}$$

$$x = 4 \pmod{6}$$

Задача Dm4.29.

333

$$x = 1 \pmod{3}$$

$$x = 3 \pmod{5}$$

$$x = 2 \pmod{4}$$

Задача Dm4.30.

333

$$x = 2 \pmod{5}$$

$$x = 1 \pmod{3}$$

$$x = 0 \pmod{2}$$

Задача Dm4.31.

333

$$x = 1(\text{mod } 3)$$

$$x = 5(\text{mod } 7)$$

$$x = 1(\text{mod } 5)$$

Задача Dm4.32.

333

$$x = 2(\text{mod } 3)$$

$$x = 3(\text{mod } 7)$$

$$x = 2(\text{mod } 4)$$

Задача Dm4.33.

333

$$x = 2(\text{mod } 3)$$

$$x = 1(\text{mod } 5)$$

$$x = 0(\text{mod } 2)$$

Задача Dm4.34.

333

$$x = 4(\text{mod } 5)$$

$$x = 2(\text{mod } 3)$$

$$x = 2(\text{mod } 4)$$

Задача Dm4.35.

333

$$x = 4(\text{mod } 5)$$

$$x = 2(\text{mod } 3)$$

$$x = 0(\text{mod } 4)$$

Задача Dm4.36.

333

$$x = 2(\text{mod } 3)$$

$$x = 4(\text{mod } 5)$$

$$x = 0(\text{mod } 2)$$

Задача Dm4.37.

333

$$x = 2(\text{mod } 3)$$

$$x = 3(\text{mod } 7)$$

$$x = 1(\text{mod } 4)$$

Задача Dm4.38.

333

$$x = 1(\text{mod } 7)$$

$$x = 1(\text{mod } 3)$$

$$x = 2(\text{mod } 4)$$

Задача Dm4.39.

333

$$x = 1(\text{mod } 3)$$

$$x = 4(\text{mod } 5)$$

$$x = 2(\text{mod } 4)$$

Задача Dm4.40.

333

$$x = 2(\text{mod } 3)$$

$$x = 4(\text{mod } 5)$$

$$x = 0(\text{mod } 2)$$

Dm4

Ответы.**Китайская теорема об остатках**

25.11.2019

N°	x	z_i	M_i
1	123(mod 210)	2, 4, 3,	30, 42, 35,
2	106(mod 308)	4, 3, 6,	44, 28, 77,
3	26(mod 30)	2, 1, 6,	10, 6, 15,
4	38(mod 60)	1, 4, 2,	20, 12, 15,
5	34(mod 84)	4, 4, 6,	12, 28, 21,
6	28(mod 30)	3, 4, 6,	6, 10, 15,
7	2(mod 84)	2, 6, 6,	28, 12, 21,
8	52(mod 60)	2, 1, 4,	20, 12, 15,
9	34(mod 308)	3, 2, 6,	44, 28, 77,
10	36(mod 70)	5, 4, 6,	10, 14, 35,
11	58(mod 60)	2, 4, 2,	20, 12, 15,
12	46(mod 60)	2, 3, 6,	20, 12, 15,
13	209(mod 210)	2, 3, 1,	42, 30, 35,
14	281(mod 308)	4, 1, 1,	44, 28, 77,
15	22(mod 60)	2, 1, 6,	20, 12, 15,
16	29(mod 30)	2, 4, 1,	10, 6, 15,
17	58(mod 84)	1, 6, 6,	28, 12, 21,
18	41(mod 70)	4, 2, 1,	14, 10, 35,
19	46(mod 84)	5, 4, 6,	12, 28, 21,
20	58(mod 308)	1, 6, 6,	44, 28, 77,
21	18(mod 70)	2, 6, 6,	14, 10, 35,
22	83(mod 105)	6, 1, 3,	15, 35, 21,
23	58(mod 60)	2, 4, 2,	20, 12, 15,
24	645(mod 693)	1, 5, 3,	99, 63, 77,
25	22(mod 30)	1, 2, 6,	10, 6, 15,
26	14(mod 30)	2, 4, 6,	10, 6, 15,
27	93(mod 210)	4, 1, 3,	42, 30, 35,
28	22(mod 210)	1, 4, 2,	42, 30, 35,
29	58(mod 60)	2, 4, 2,	20, 12, 15,
30	22(mod 30)	2, 1, 6,	6, 10, 15,
31	61(mod 105)	2, 5, 1,	35, 15, 21,
32	38(mod 84)	2, 2, 6,	28, 12, 21,
33	26(mod 30)	2, 1, 2,	10, 6, 15,
34	14(mod 60)	2, 4, 6,	12, 20, 15,
35	44(mod 60)	2, 4, 4,	12, 20, 15,
36	14(mod 30)	2, 4, 6,	10, 6, 15,
37	17(mod 84)	2, 2, 1,	28, 12, 21,
38	22(mod 84)	3, 1, 6,	12, 28, 21,
39	34(mod 60)	2, 2, 6,	20, 12, 15,
40	14(mod 30)	2, 4, 6,	10, 6, 15,

Дм4 файл 4с333-AnsA