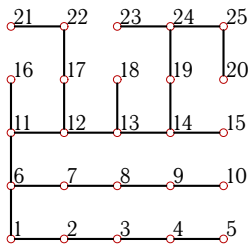


## Центроид дерева (n=16)

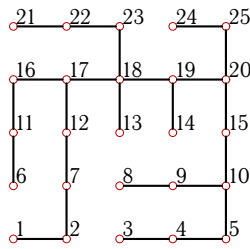
Найти радиус  $r$  и диаметр  $d$  графа. Записать десятичную кодировку дерева с корнем в вершине 7. Найти наименьший вес вершин дерева и его центроид.

**Задача 22.1**



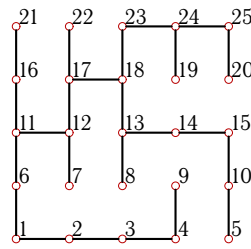
22.1

**Задача 22.2**



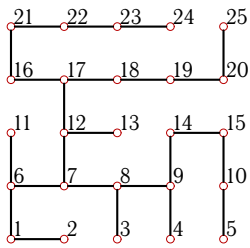
22.1

**Задача 22.3**



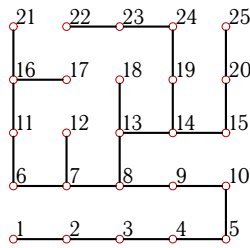
22.1

**Задача 22.4**



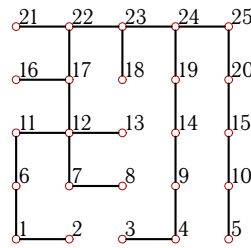
22.1

**Задача 22.5**



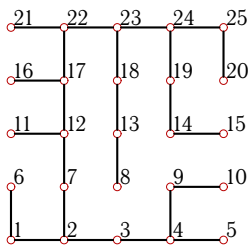
22.1

**Задача 22.6**



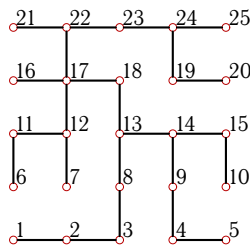
22.1

**Задача 22.7**



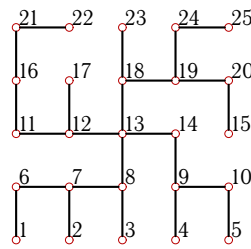
22.1

**Задача 22.8**



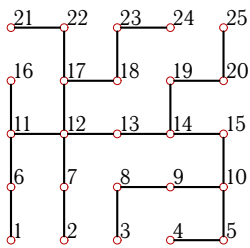
22.1

**Задача 22.9**



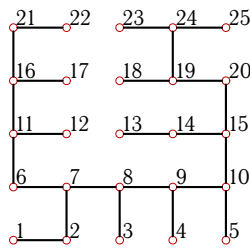
22.1

**Задача 22.10**



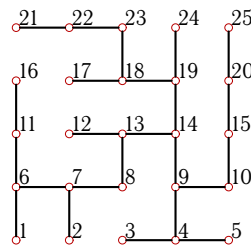
22.1

**Задача 22.11**



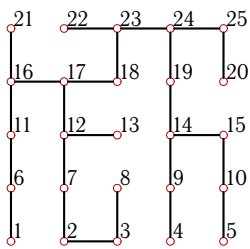
22.1

**Задача 22.12**



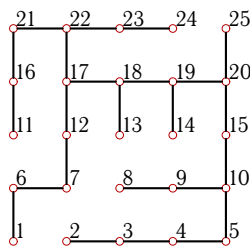
22.1

**Задача 22.13**



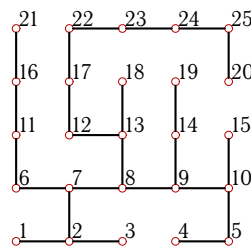
22.1

**Задача 22.14**



22.1

**Задача 22.15**



22.1



**Центроид дерева (n=16)**

	$r$	$d$	Центр	Код(10)	$min(\rho)$	центроид
1	7	13	11, 12	277212054536760	12	12,
2	6	12	19	228207703384512	12	18,
3	7	14	12	280388869060104	12	17,
4	7	13	7, 12	251632484844480	12	7,
5	7	13	8, 9	268554649499682	10	8,
6	7	13	22, 23	209005388528640	12	23,
7	7	13	12, 17	254403185013120	12	17,
8	6	11	17, 18	253971019128384	12	17,
9	5	9	12, 13	197354077614864	7	13,
10	6	11	13, 14	207393704910384	12	12,
11	7	13	8, 9	227428028706048	12	9,
12	6	11	13, 14	200368072023072	9	14,
13	7	13	18, 23	250123040440704	12	18,
14	7	13	19, 20	228079431859296	12	18,
15	7	13	12, 13	232838310393864	9	8,
16	6	12	11	273212503757040	10	11,
17	5	9	13, 14	225659671471296	10	13,
18	5	10	12	226484834679042	9	12,
19	7	13	8, 13	270544221091584	10	14,
20	6	12	7	251726893281504	10	7,
21	7	13	23, 24	226383160787328	12	23,
22	6	11	12, 13	202276982765952	12	12,
23	5	10	13	244331091404160	11	13,
24	8	16	7	243881165582850	12	2,
25	6	12	17	210073238602512	12	17,
26	8	15	2, 7	241831358980674	12	2,
27	6	12	17	280361608900608	9	18,
28	5	10	8	223878639054960	10	13,
29	6	11	12, 13	268045120933248	11	13,
30	7	13	8, 13	270544221091584	10	14,