

NP-Complete Project: Vertex Cover

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Comparison Results of Vertex Cover approximation and exact algorithms

Vertices	approx set size	exact set size	approx time	exact time
2	2	1	00:00.029	00:00.029
3	2	2	00:00.028	00:00.028
5	4	3	00:00.030	00:00.030
7	6	4	00:00.028	00:00.029
10	8	5	00:00.027	00:00.039
15	14	9	00:00.026	00:00.330
20	20	11	00:00.028	00:04.000
21	20	12	00:00.100	00:14.000
22	22	13	00:00.027	00:39.000
23	22	14	00:00.340	01:35.000
24	22	15	00:00.028	02:51.000
25	22	16	00:00.100	05:48.000
26	22	13	00:00.026	05:03.000
27	22	14	00:00.028	13:18.000
28	24	15	00:00.027	37:13.000