

Priloga: Rezultati hevristične konstrukcije grafov na 42 vozliščih

V tej prilogi sta zbrana prikaza dveh zagonov hevrističnega algoritma (S6) za konstrukcijo grafov na 42 vozlih. Na prvi sliki je graf največjim $\text{Int}(G)$, na drugi pa z najmanjšim.

Obe sliki sta iz prejšnje verzije programa, novejša verzija programa, ki je priložena, izpiše več grafov, ki so priloženi v datotekah C42_multistart_max_True.pdf (grafi z največjimi $\text{Int}(G)$) in C42_multistart_max_False.pdf.

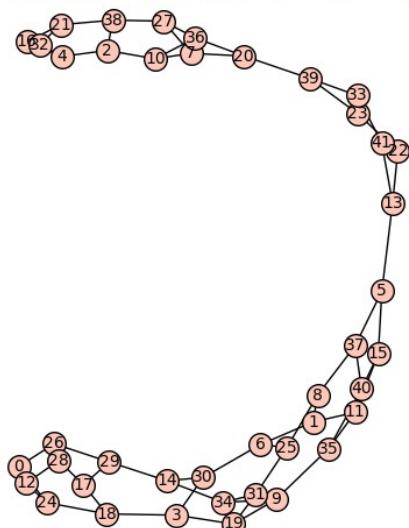
```
2025-12-16 22:53:06.441182
[run 1/5] seed=0 approx_best=10206.44 time=98.2s topK=20
[run 2/5] seed=1 approx_best=11403.12 time=65.0s topK=20
[run 3/5] seed=2 approx_best=10993.12 time=71.6s topK=20
[run 4/5] seed=3 approx_best=9965.56 time=74.2s topK=20
[run 5/5] seed=4 approx_best=10941.88 time=72.4s topK=20
```

```
[done] total_time=381.7s unique_exact_checked=100
```

```
== GLOBAL BEST (exact) ==
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```
Int(G) = 9771
```

```
connected = True diameter = 19 radius = 10 Aut = 16
```



```
Top 10 (exact):
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- 1) Int= 9771.00 diam=19 rad=10 |Aut|=16
- 2) Int= 9771.00 diam=19 rad=10 |Aut|=16
- 3) Int= 9727.00 diam=20 rad=10 |Aut|=16
- 4) Int= 9727.00 diam=20 rad=10 |Aut|=16
- 5) Int= 9721.00 diam=20 rad=10 |Aut|=8
- 6) Int= 9661.00 diam=20 rad=10 |Aut|=8
- 7) Int= 9472.00 diam=19 rad=10 |Aut|=128
- 8) Int= 9414.00 diam=19 rad=10 |Aut|=64
- 9) Int= 9414.00 diam=19 rad=10 |Aut|=64
- 10) Int= 9414.00 diam=19 rad=10 |Aut|=64

```
Top grafi v: C42_multistart_max_True.g6
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```
PDF datoteka 'C42_multistart_max_True.pdf' uspešno ustvarjena.
```

```
Top 10 grafov izvoženih v pdf: C42_multistart_max_True.pdf
```

```
2025-12-16 22:59:29.354134
```

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2025-12-16 22:40:31.125913
[run 1/5] seed=0 approx_best=3154.44 time=57.1s topK=20
[run 2/5] seed=1 approx_best=3338.94 time=71.4s topK=9
[run 3/5] seed=2 approx_best=3241.56 time=68.4s topK=19
[run 4/5] seed=3 approx_best=3246.69 time=73.1s topK=19
[run 5/5] seed=4 approx_best=3182.62 time=87.6s topK=20

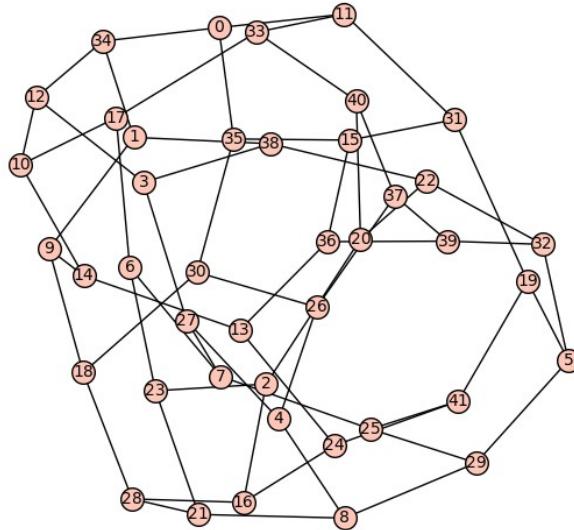
[done] total_time=357.8s unique_exact_checked=87

```

```

==== GLOBAL BEST (exact) ====
Int(G) = 3469
connected = True diameter = 6 radius = 5

```



Top 10 (exact):

1)	Int=	3469.00	diam=	6	rad=	5	Aut =1
2)	Int=	3521.00	diam=	6	rad=	5	Aut =1
3)	Int=	3539.00	diam=	6	rad=	5	Aut =1
4)	Int=	3550.00	diam=	6	rad=	5	Aut =1
5)	Int=	3556.00	diam=	6	rad=	5	Aut =1
6)	Int=	3573.00	diam=	6	rad=	5	Aut =1
7)	Int=	3592.00	diam=	6	rad=	5	Aut =1
8)	Int=	3593.00	diam=	6	rad=	5	Aut =1
9)	Int=	3595.00	diam=	6	rad=	5	Aut =1
10)	Int=	3606.00	diam=	6	rad=	5	Aut =1

Top grafi v: C42_multistart_max_False.g6

PDF datoteka 'C42_multistart_max_False.pdf' uspešno ustvarjena.

Top 10 grafov izvoženih v pdf: C42_multistart_max_False.pdf
2025-12-16 22:46:30.210295