

## 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.

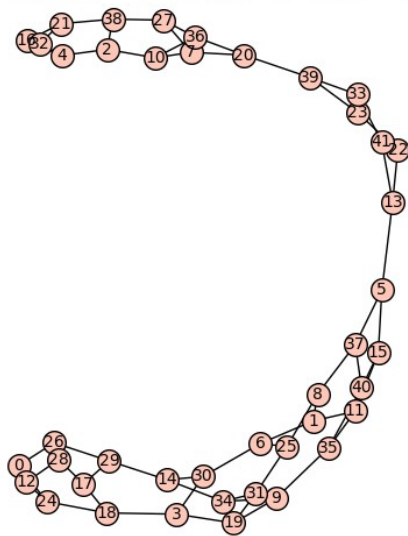
```
2025-12-16 22:53:06.441182
[run 1/5] seed=0 approx_best=10206.44 time=98.2s topK=20
[run 2/5] seed=1 approx_best=11403.12 time=65.0s topK=20
[run 3/5] seed=2 approx_best=10993.12 time=71.6s topK=20
[run 4/5] seed=3 approx_best=9965.56 time=74.2s topK=20
[run 5/5] seed=4 approx_best=10941.88 time=72.4s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

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

```
=== GLOBAL BEST (exact) ===
```

```
Int(G) = 9771
```

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



```
Top 10 (exact):
```

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
```

```
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
```

```

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) ===

```

```

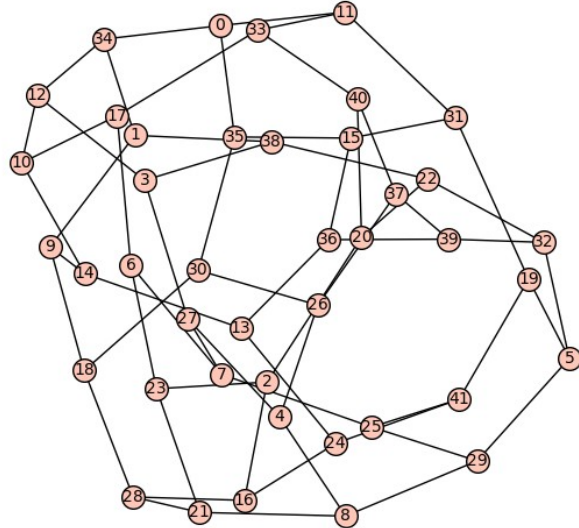
Int(G) = 3469

```

```

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

```