

Blog Entry © Sunday, January 4, 2026, by James Pate Williams, Jr. Iterative Deepening A* Search to Solve the Fifteen Tile Puzzle (Win32 C/C++ Release x64 Configuration)

Reference: *Artificial Intelligence a Modern Approach First and Second Editions* by Stuart Russell and Peter Norvig

Rebuild started at 2:31 AM...

```
1>----- Rebuild All started: Project: IDAPuzzle15,
Configuration: Release x64 -----
```

```
1>pch.cpp
```

```
1>Common.cpp
```

```
1>IDAPuzzle15.cpp
```

```
1>IDASearch.cpp
```

```
1>Generating code
```

```
1>Previous IPDB not found, fall back to full compilation.
```

```
1>All 380 functions were compiled because no usable IPDB/IOBJ
from previous compilation was found.
```

```
1>Finished generating code
```

```
1>IDAPuzzle15.vcxproj ->
```

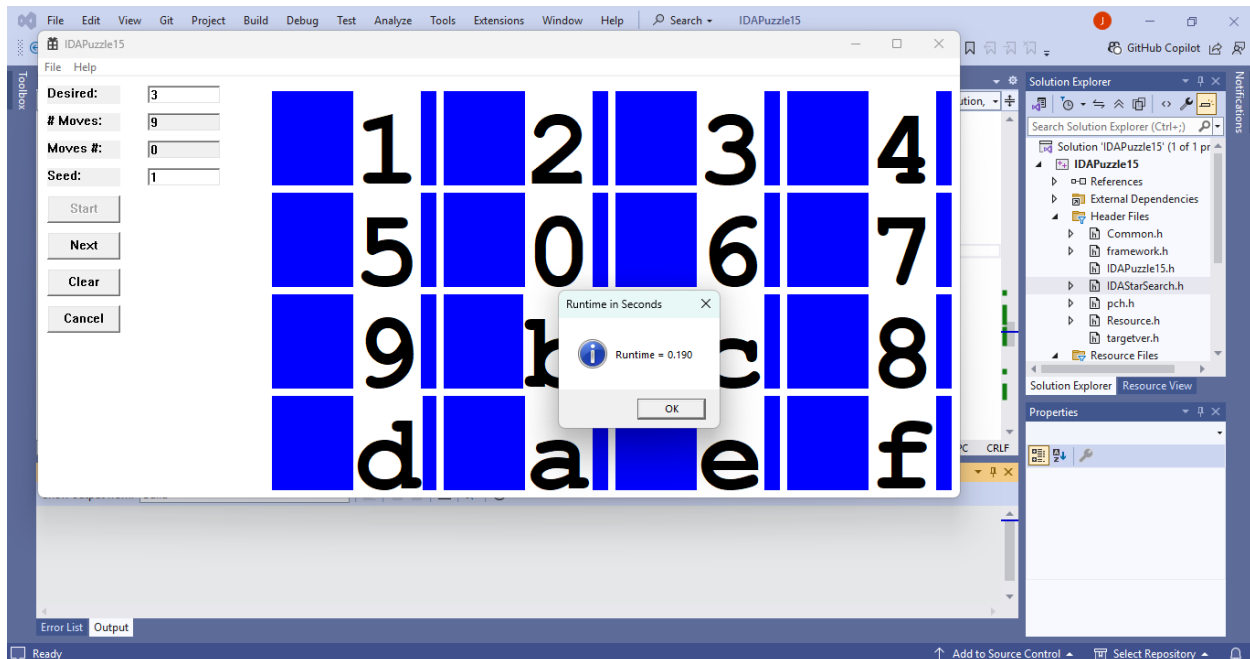
```
D:\IDAPuzzle15\x64\Release\IDAPuzzle15.exe
```

```
===== Rebuild All: 1 succeeded, 0 failed, 0 skipped
```

```
=====
```

```
===== Rebuild completed at 2:31 AM and took 07.234 seconds
```

```
=====
```



IDAPuzzle15

File Help

Desired:

Moves:

Moves #:

Seed:

Start

Next

Clear

Cancel

	1		2		3		4
	5		0		6		7
	9		b		c		8
	d		a		e		f

IDAPuzzle15

File Help

Desired:

Moves:

Moves #:

Seed:

Start

Next

Clear

Cancel

	1		2		3		4
	5		6		0		7
	9		b		c		8
	d		a		e		f

IDAPuzzle15

File Help

Desired:

Moves:

Moves #:

Seed:

Start

Next

Clear

Cancel

1	2	3	4
5	6	7	0
9	b	c	8
d	a	e	f

IDAPuzzle15

File Help

Desired:

Moves:

Moves #:

Seed:

Start

Next

Clear

Cancel

1	2	3	4
5	6	7	8
9	b	c	0
d	a	e	f

IDAPuzzle15

File Help

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Start

Next

Clear

Cancel

1	2	3	4
5	6	7	8
9	b	0	c
d	a	e	f

IDAPuzzle15

File Help

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5	6	7	8
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IDAPuzzle15

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	5		6		7		8
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IDAPuzzle15

File Help

Desired:

Moves:

Moves #:

Seed:

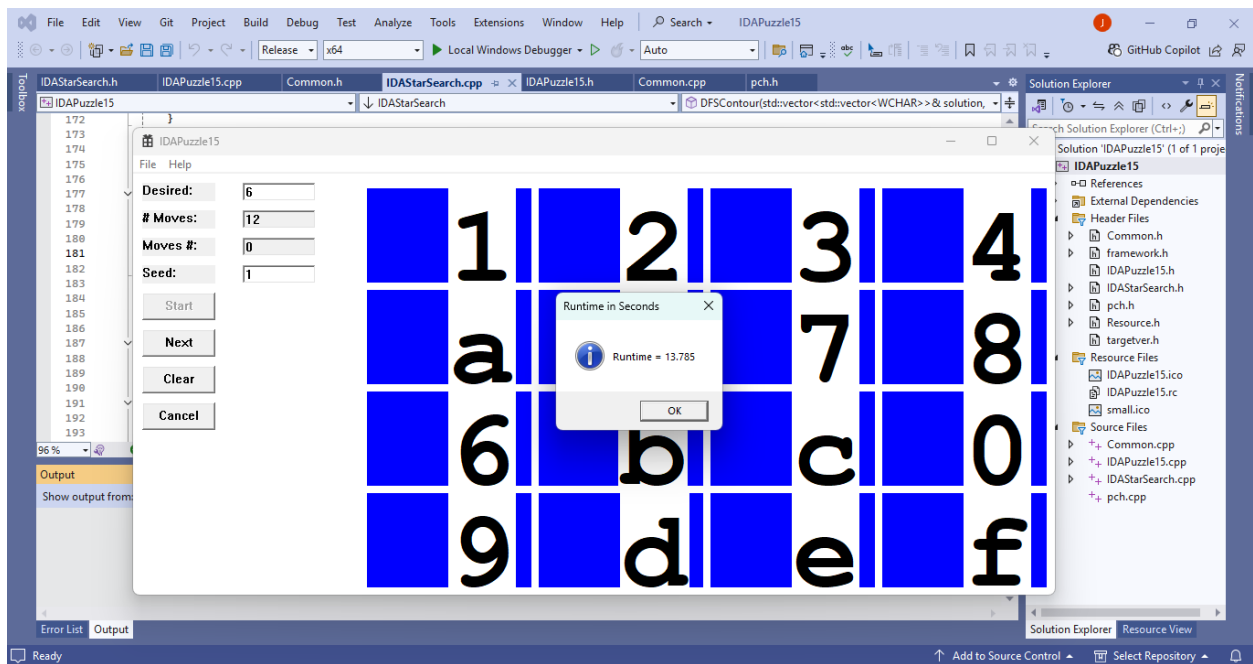
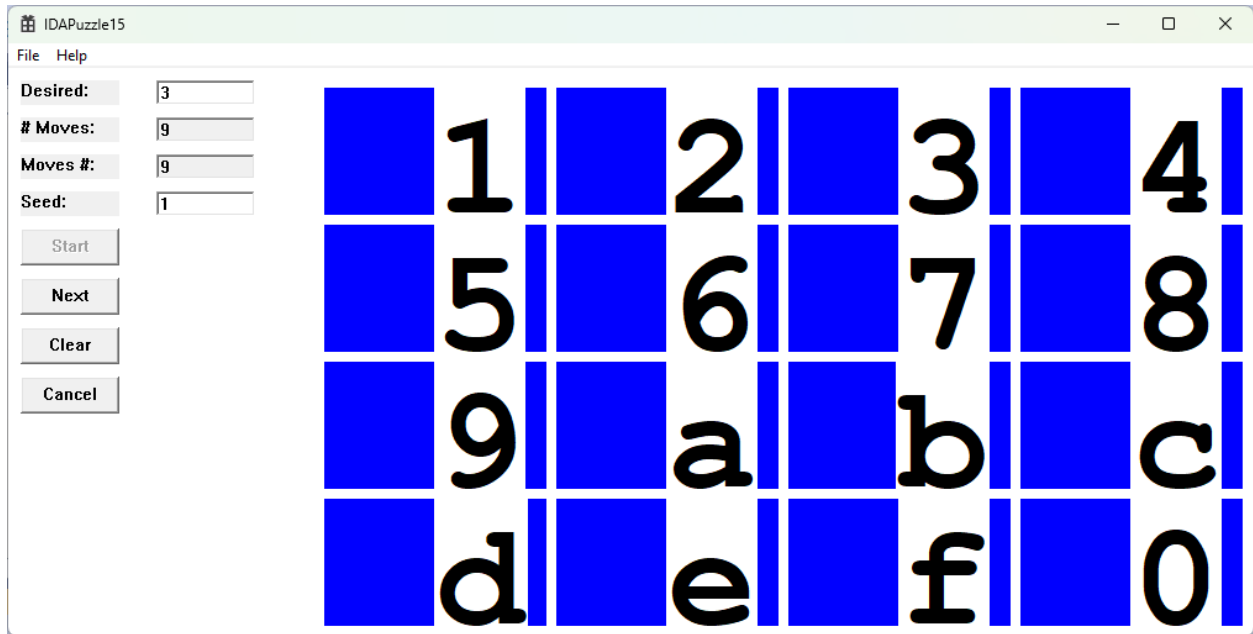
Start

Next

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	d		e		0		f



IDAPuzzle15

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IDAPuzzle15

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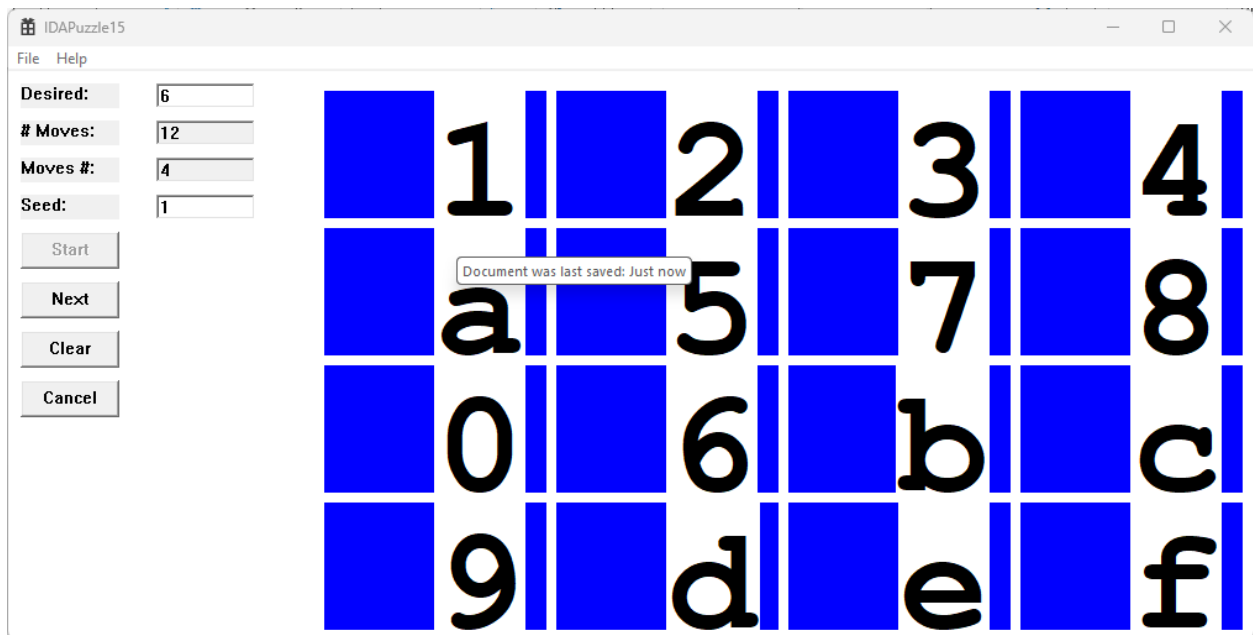
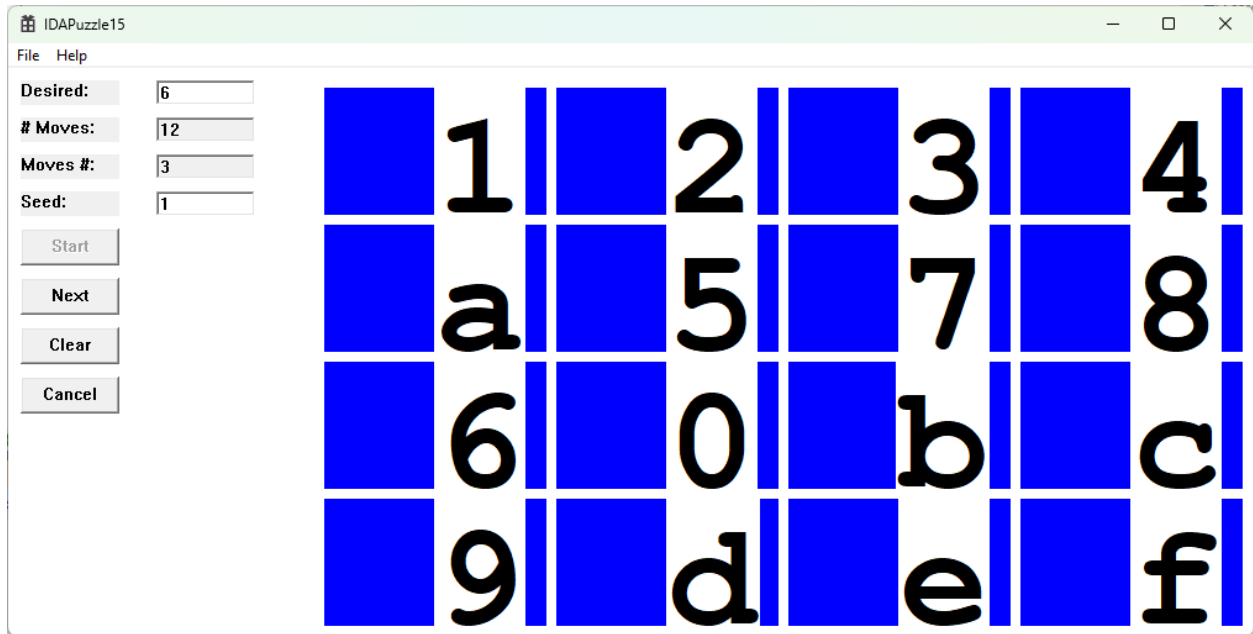
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	d		e		f		0