

MongoDB description

Database name: starb

Collections: puzzles

Documents:

id: This is the unique identifier for the document. It's created by the MongoDB.

An example id is "6548b5849ccc4c6176ea8cff".

level: The level of the puzzle. Example value 1.

regions: An array containing regions, where each region is represented as an array of Cells with "row" and "col" properties.

gridSize: The size of the grid. Example 10.

numStars: The number of stars, and it has a value of 2.

Solution: The solution's to the first level. Example:

```
{  
  "row": 0,  
  "col": 3  
},  
{  
  "row": 0,  
  "col": 5  
},  
{  
  "row": 1,  
  "col": 1  
},
```

```
{
  "row": 1,
  "col": 7
},
{
  "row": 2,
  "col": 3
},
{
  "row": 2,
  "col": 5
},
{
  "row": 3,
  "col": 0
},
{
  "row": 3,
  "col": 8
},
{
  "row": 4,
  "col": 2
},
{
  "row": 4,
  "col": 4
},
{
  "row": 5,
```

```
    "col": 6
  },
  {
    "row": 5,
    "col": 9
  },
  {
    "row": 6,
    "col": 0
  },
  {
    "row": 6,
    "col": 2
  },
  {
    "row": 7,
    "col": 7
  },
  {
    "row": 7,
    "col": 9
  },
  {
    "row": 8,
    "col": 1
  },
  {
    "row": 8,
    "col": 4
  },
  }
```

```
{
  "row": 9,
  "col": 6
},
{
  "row": 9,
  "col": 8
}
```

`_class`: Represents the class or type of the document. It's a Puzzle class for this document.

An example of a complete document:

```
{
  "_id": {
    "$oid": "6548b5849ccc4c6176ea8d05"
  },
  "level": 7,
  "regions": [
    [
      {
        "row": 0,
        "col": 0
      },
      {
        "row": 1,
        "col": 0
      },
      {
        "row": 2,
```

```
"col": 0
},
{
  "row": 3,
  "col": 0
},
{
  "row": 4,
  "col": 0
},
{
  "row": 5,
  "col": 0
},
{
  "row": 5,
  "col": 1
},
{
  "row": 5,
  "col": 2
},
{
  "row": 6,
  "col": 1
},
{
  "row": 6,
  "col": 0
}
```

```
],  
[  
  {  
    "row": 6,  
    "col": 2  
  },  
  {  
    "row": 6,  
    "col": 3  
  },  
  {  
    "row": 6,  
    "col": 4  
  },  
  {  
    "row": 6,  
    "col": 5  
  },  
  {  
    "row": 7,  
    "col": 0  
  },  
  {  
    "row": 7,  
    "col": 1  
  },  
  {  
    "row": 7,  
    "col": 2  
  },  
]
```

```
{
  "row": 8,
  "col": 0
},
{
  "row": 8,
  "col": 1
}
],
[
  {
    "row": 9,
    "col": 0
  },
  {
    "row": 9,
    "col": 1
  },
  {
    "row": 9,
    "col": 2
  }
],
[
  {
    "row": 0,
    "col": 1
  },
  {
    "row": 0,
```

```
"col": 2
},
{
  "row": 0,
  "col": 3
},
{
  "row": 0,
  "col": 4
},
{
  "row": 0,
  "col": 5
},
{
  "row": 0,
  "col": 6
},
{
  "row": 0,
  "col": 7
},
{
  "row": 1,
  "col": 1
},
{
  "row": 1,
  "col": 2
},
}
```



```
{
  "row": 1,
  "col": 3
},
{
  "row": 1,
  "col": 4
},
{
  "row": 1,
  "col": 5
},
{
  "row": 1,
  "col": 6
},
{
  "row": 1,
  "col": 7
},
{
  "row": 2,
  "col": 5
},
{
  "row": 3,
  "col": 5
},
{
  "row": 4,
```

```
    "col": 5
  }
],
[
  {
    "row": 0,
    "col": 8
  },
  {
    "row": 0,
    "col": 9
  },
  {
    "row": 1,
    "col": 8
  },
  {
    "row": 1,
    "col": 9
  },
  {
    "row": 2,
    "col": 8
  },
  {
    "row": 2,
    "col": 9
  }
],
[
```

```
{
  "row": 2,
  "col": 1
},
{
  "row": 2,
  "col": 2
},
{
  "row": 2,
  "col": 3
},
{
  "row": 2,
  "col": 4
},
{
  "row": 3,
  "col": 1
},
{
  "row": 3,
  "col": 2
},
{
  "row": 4,
  "col": 1
},
{
  "row": 4,
```

```
    "col": 2
  },
  {
    "row": 3,
    "col": 4
  },
  {
    "row": 4,
    "col": 4
  }
],
[
  {
    "row": 3,
    "col": 9
  },
  {
    "row": 4,
    "col": 9
  },
  {
    "row": 5,
    "col": 9
  },
  {
    "row": 6,
    "col": 9
  }
],
[
```

```
{
  "row": 2,
  "col": 6
},
{
  "row": 2,
  "col": 7
},
{
  "row": 3,
  "col": 3
},
{
  "row": 3,
  "col": 6
},
{
  "row": 3,
  "col": 7
},
{
  "row": 3,
  "col": 8
},
{
  "row": 4,
  "col": 3
},
{
  "row": 4,
```

```
    "col": 6
  },
  {
    "row": 5,
    "col": 3
  },
  {
    "row": 5,
    "col": 4
  },
  {
    "row": 5,
    "col": 5
  },
  {
    "row": 5,
    "col": 6
  },
  {
    "row": 5,
    "col": 7
  }
],
[
  {
    "row": 7,
    "col": 3
  },
  {
    "row": 8,
```

```
"col": 2
},
{
  "row": 8,
  "col": 3
},
{
  "row": 8,
  "col": 7
},
{
  "row": 8,
  "col": 8
},
{
  "row": 8,
  "col": 9
},
{
  "row": 9,
  "col": 3
},
{
  "row": 9,
  "col": 4
},
{
  "row": 9,
  "col": 5
},
}
```

```
{
  "row": 9,
  "col": 6
},
{
  "row": 9,
  "col": 7
},
{
  "row": 9,
  "col": 8
},
{
  "row": 9,
  "col": 9
}
],
[
  {
    "row": 4,
    "col": 7
  },
  {
    "row": 4,
    "col": 8
  },
  {
    "row": 5,
    "col": 8
  },
  {
```



```
{
  "row": 6,
  "col": 6
},
{
  "row": 6,
  "col": 7
},
{
  "row": 6,
  "col": 8
},
{
  "row": 7,
  "col": 4
},
{
  "row": 7,
  "col": 5
},
{
  "row": 7,
  "col": 6
},
{
  "row": 7,
  "col": 7
},
{
  "row": 7,
```

```
    "col": 8
  },
  {
    "row": 7,
    "col": 9
  },
  {
    "row": 8,
    "col": 4
  },
  {
    "row": 8,
    "col": 5
  },
  {
    "row": 8,
    "col": 6
  }
],
"solution": [
  {
    "row": 0,
    "col": 6
  },
  {
    "row": 0,
    "col": 8
  },
  {
```

```
"row": 1,  
  "col": 0  
},  
{  
  "row": 1,  
  "col": 4  
},  
{  
  "row": 2,  
  "col": 6  
},  
{  
  "row": 2,  
  "col": 8  
},  
{  
  "row": 3,  
  "col": 2  
},  
{  
  "row": 3,  
  "col": 4  
},  
{  
  "row": 4,  
  "col": 7  
},  
{  
  "row": 4,  
  "col": 9
```

```
},  
{  
  "row": 5,  
  "col": 1  
},  
{  
  "row": 5,  
  "col": 3  
},  
{  
  "row": 6,  
  "col": 5  
},  
{  
  "row": 6,  
  "col": 9  
},  
{  
  "row": 7,  
  "col": 1  
},  
{  
  "row": 7,  
  "col": 3  
},  
{  
  "row": 8,  
  "col": 5  
},  
{
```

```
    "row": 8,  
    "col": 7  
  },  
  {  
    "row": 9,  
    "col": 0  
  },  
  {  
    "row": 9,  
    "col": 2  
  }  
],  
"gridSize": 10,  
"numStars": 2,  
"_class": "starb.server.Puzzle"  
}
```