哈爾濱工業大學
HARBIN INSTITUTE OF TECHNOLOGY

大标题

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2024 年 2 月 36 日

小标题

- The trivial Set Cover algorithm has running time of $\mathcal{O}(2^n)$.

- The trivial Set Cover algorithm has running time of $\mathcal{O}(2^n)$.
- bla, bla, bla…

Lists - Itemize

- Point A
- Point B
  - part 1
  - part 2
- Point C
- Point D

Lists - Itemize with Pause

Lists - Itemize with Pause

- Point A

Lists - Itemize with Pause

- Point A
- Point B

Lists - Itemize with Pause

- Point A
- Point B
  - part 1

Lists - Itemize with Pause

- Point A
- Point B
  - part 1
  - part 2

Lists - Itemize with Pause

- Point A
- Point B
  - part 1
  - part 2
- Point C

Lists - Itemize with Pause

- Point A
- Point B
  - part 1
  - part 2
- Point C
- Point D

Lists - Enumerate

1. Point A
2. Point B
    1. part 1
    2. part 2
3. Point C
4. Point D

Lists - Enumerate (Roman Numerals)

I. Point A
II. Point B
    i. part 1
    ii. part 2
III. Point C
IV. Point D

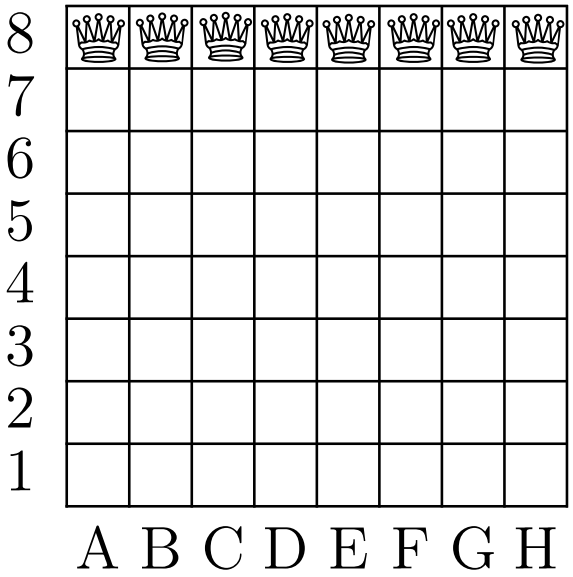
Columns

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

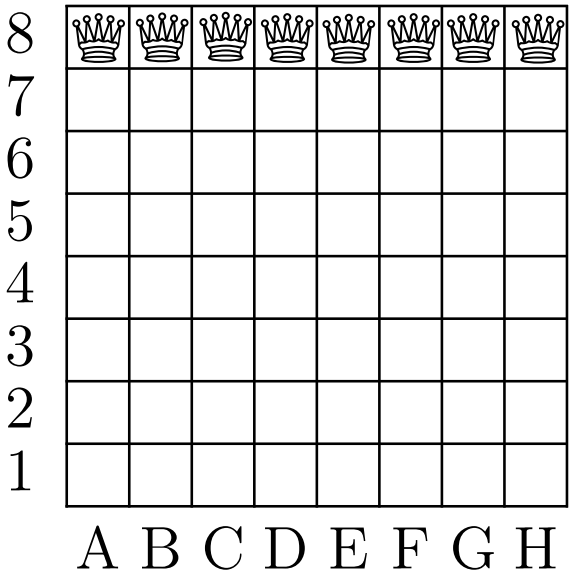
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

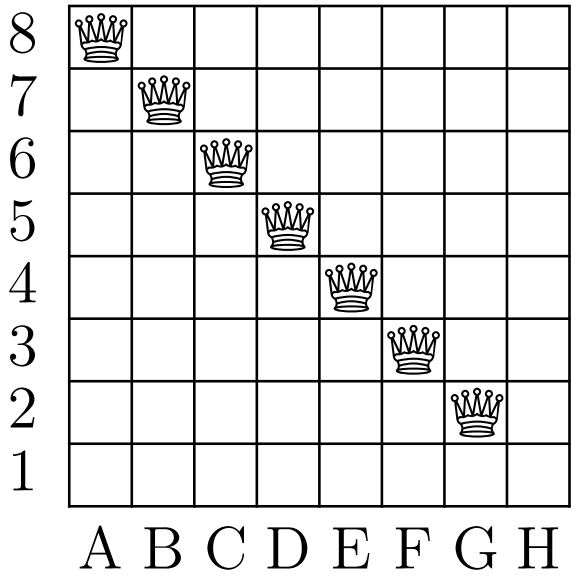
Domination on a Chessboard

Domination on a Chessboard

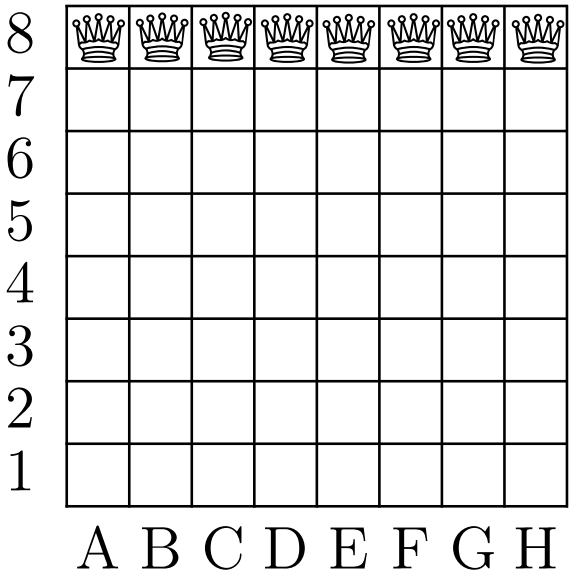


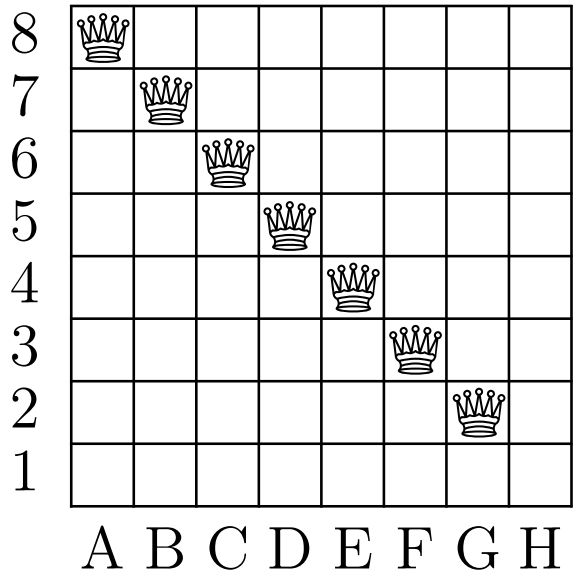
Domination on a Chessboard

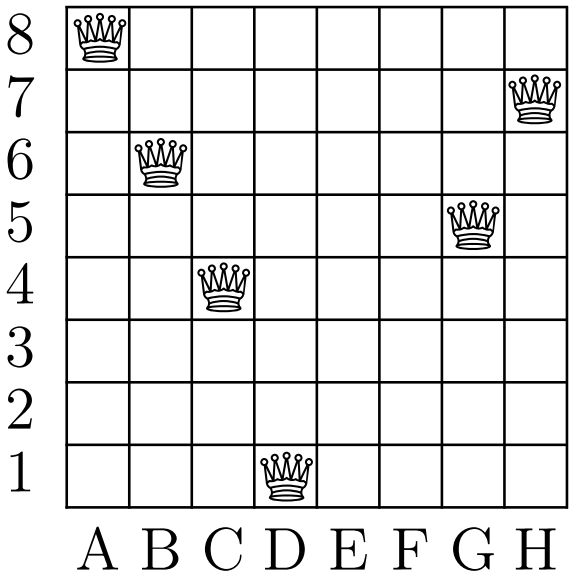




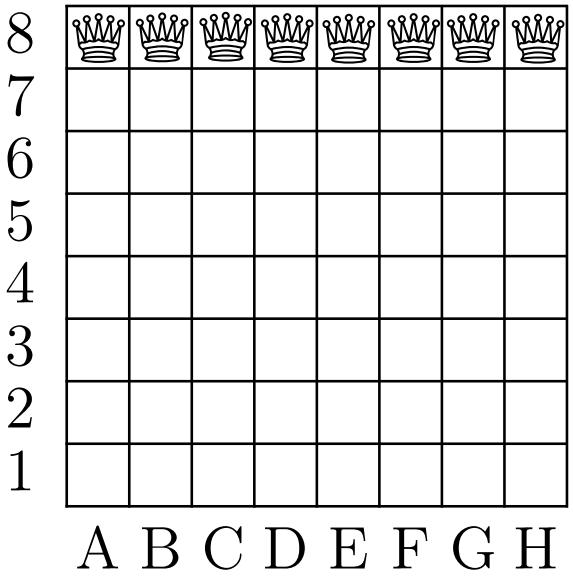
Domination on a Chessboard

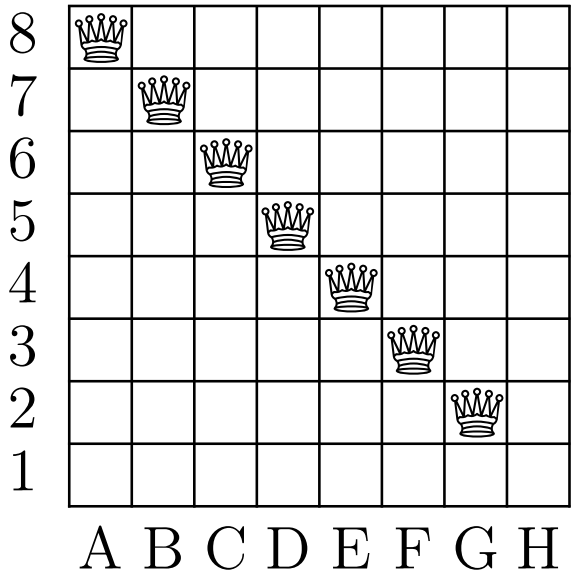


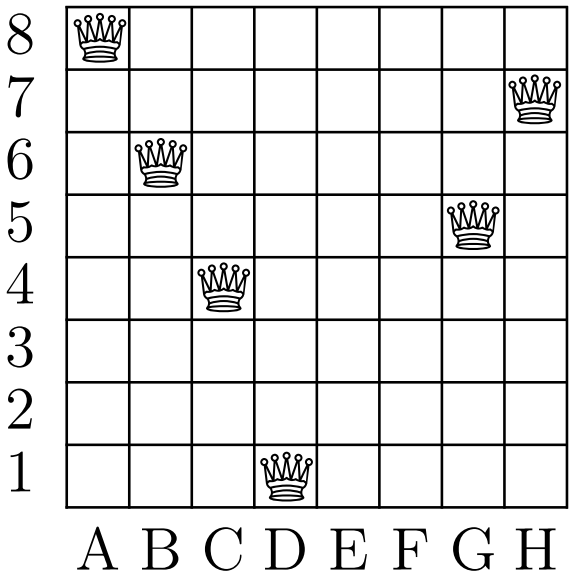


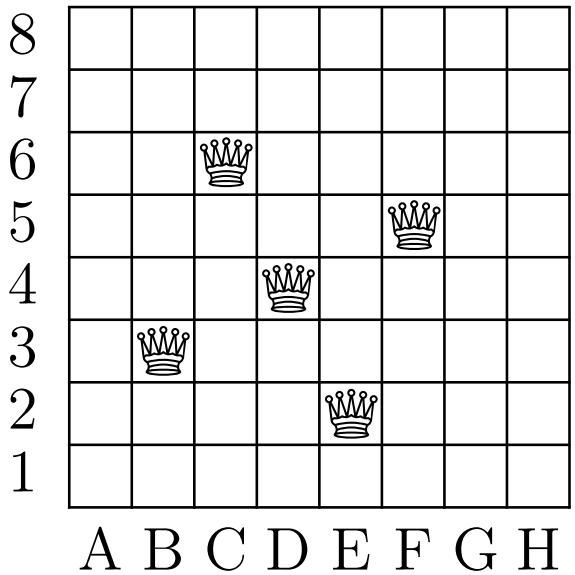


Domination on a Chessboard









Single figure with caption

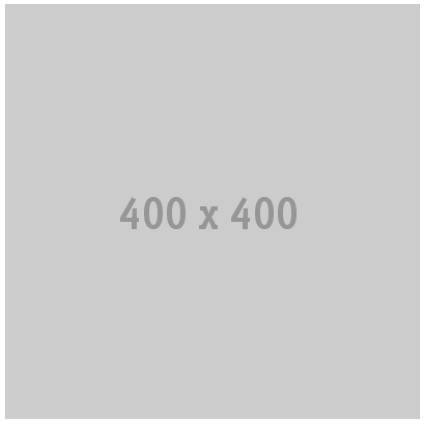


Figure: This is an caption!

Description Environment

API	Application Programming Interface
LAN	Local Area Network
ASCII	American Standard Code for Information Interchange

Tables

Competitor Name	Swim	Cycle	Run	Total
John T	13:04	24:15	18:34	55:53
Norman P	8:00	22:45	23:02	53:47
Alex K	14:00	28:00	n/a	n/a
Sarah H	9:22	21:10	24:03	54:35

Table: Triathlon results

Blocks

Block Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Alert Block Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Definition

Then there’ s the definition environment which produces a standard ColorA color block but with the title already specified as ‘definition’ .

```
\begin{definition}
A prime number is a number that...
\end{definition}
```

Definition

A prime number is a number that...

Example

Next there’s the example environment which produces a green block with the title “Example”.

```
\begin{example}
Lorem ipsum dolor sit amet...
\end{example}
```

Example

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Theorem

There is also a group of blocks that are especially useful for presenting mathematics. For example the ‘theorem’ environment, the ‘corollary’ environment and the ‘proof’ environment.

```
\begin{theorem}[Pythagoras]
$a^2 + b^2 = c^2$
\end{theorem}
\begin{corollary}
$x + y = y + x$
\end{corollary}
\begin{proof}
$\omega + \phi = \epsilon$
\end{proof}
```

Theorem Blocks

Theorem (Pythagoras)

$a^2 + b^2 = c^2$

Corollary

$x + y = y + x$

Proof.

$\omega + \phi = \epsilon$ □

Hyperlink

Before we can create any hyperlinks we need to tag the frames we want to link to using the ommand.

click here section 1 page ▸ columns page ▸▸ pictures page ◂ pictures page

A trivial Set Cover algorithm

Algorithm 1: $\texttt{MSC}(\mathcal{S},\mathcal{U})$

Input : A set cover instance $(\mathcal{S},\mathcal{U})$ and a variable $\mathcal{S}_{\text{dom}}$.
Output : A minimum set cover of $(\mathcal{S},\mathcal{U})$.

```
if S = ∅ then
    return ∅;
Let S ∈ S be a set of maximum cardinality;
C_1 = {S} ∪ MSC({S' \ S | S' ∈ S \ {S}}, U \ S);
C_2 = MSC(S \ {S}, U);
S_dom ← ∅;
if U ⊆ C_1 then
    S_dom ← C_1;
    if U ⊆ C_2 then
        if |C_2| < |C_1| then
            S_dom ← C_2;
return S_dom;
```

References

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- 焦波, 乡村里的中国, URL: https://www.bilibili.com/video/BV1FT4y1E7i7.

Thanks!

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