计算机网络 课程实验报告

TCP/IP 实验

学院   火星土木学院

专业   土木工程

姓名   丁真

学号   **114514**

2077 年 1 月 1 日

目　　录

1 一级标题

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

测试中文:

通过这次实验，我深刻体会到了同态加密技术的强大和实用性，特别是在保护数据隐私的同时执行复杂计算的能力。使用 *Microsoft SEAL* 库进行加密计算不仅加深了我对同态加密原理的理解，也提升了我的编程技能和解决实际问题的能力。

1.1 二级标题

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

图 1.1.1: 南开大学校徽

分点:

1. *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

2. *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

- *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

- *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.*

1.2 测试 tablex

Username	Data		Score
	Location	Height	
John	Second St.	180 cm	5
Wally	Third Av.	160 cm	10
Jason	Some St.	150 cm	15
Robert	123 Av.	190 cm	20
Other	Unknown St.	170 cm	25

表 1.2.2: 一个表格

1.3 测试 codly

```rust
1 pub fn main() {
2     println!("Hello, world!");
3 }
```

```cpp
1   void MergeSort(int arr[], int left, int right) {
2     if(left >= right) return;
```

```
3     int mid = (left + right) >> 1;
4     MergeSort(arr, left, mid);
5     MergeSort(arr, mid + 1, right);
6     int i = left, j = mid + 1, k = 0, temp[right - left + 1];
7     while(i <= mid && j <= right) {
8       if(arr[i] <= arr[j]) temp[k++] = arr[i++];
9       else temp[k++] = arr[j++];
10    }
11    while(i <= mid) temp[k++] = arr[i++];
12    while(j <= right) temp[k++] = arr[j++];
13    for(int i = 0; i < k; i++) arr[left + i] = temp[i];
14  }
```
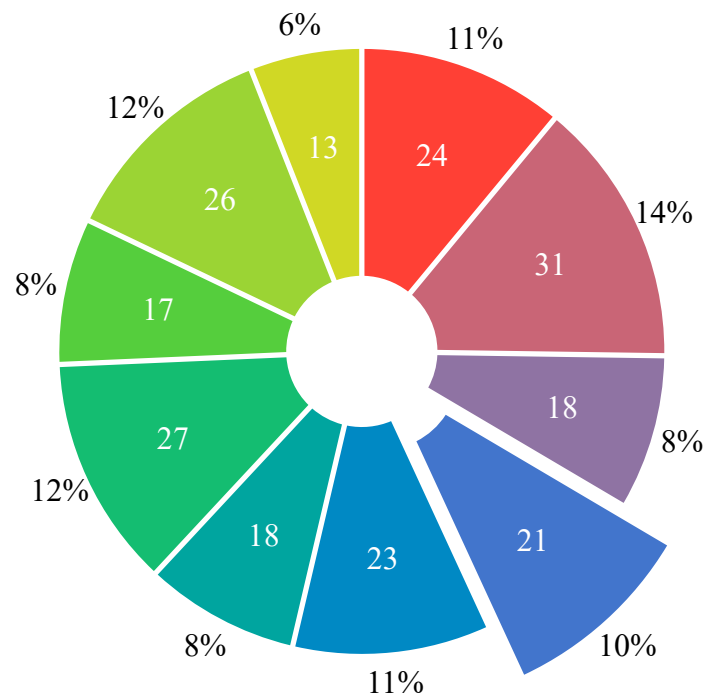
1.4 测试 **cetz**

图 1.4.3: 饼图

1.5 测试 **pinit**

A simple highlighted text.

It is simple.

1.6 测试 colorbox

> **Lorem ipsum dolor sit amet.**
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

> **Lorem ipsum dolor sit amet.**
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

> **Lorem ipsum dolor sit amet.**
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> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

> **Lorem ipsum dolor sit amet.**
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut.

1.7 测试 showybox

①

> **Red-ish showybox with separated sections!**
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.

②

> ### Clairaut's theorem
>
> Let $f : A \to \mathbb{R}$ with $A \subset \mathbb{R}^n$ an open set such that its cross derivatives of any order exist and are continuous in A. Then for any point $(a_1, a_2, ..., a_n) \in A$ it is true that
>
> $$\frac{\partial^n f}{\partial x_i ... \partial x_j}(a_1, a_2, ..., a_n) = \frac{\partial^n f}{\partial x_j ... \partial x_i}(a_1, a_2, ..., a_n)$$
>
> *This will be useful every*
>
> 　　　　　　　　　　　　　　　*time you want to interchange partial derivatives in the future.*

③

> ### Lorem ipsum dolor.
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

④

> ### Divergence theorem
>
> Suppose V is a subset of $\mathbb{R}^n$ which is compact and has a piecewise smooth boundary S (also indicated with $\partial V = S$). If $\boldsymbol{F}$ is a continuously differentiable vector field defined on a neighborhood of V, then:
>
> $$\iiint_V (\boldsymbol{\nabla} \cdot \boldsymbol{F}) \, \mathrm{d}V = \oiint_S (\boldsymbol{F} \cdot \hat{\boldsymbol{n}}) \, \mathrm{d}S$$
>
> In the case of $n = 3$, V represents a volumne in three-dimensional space, and $\partial V = S$ its
>
> 　　　　　　　　　　　　　　　　　　　　　　　　　　　　　surface

⑤

> ### Parent container
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > #### Child 1
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > #### Child 2
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

⑥

> **mytitle**
>
> Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > **Child 1**
> >
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > **Child 2**
> >
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > **Child 2**
> >
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > **Child 2**
> >
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > **Child 2**
> >
> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.
>
> > **Child 2**
> >
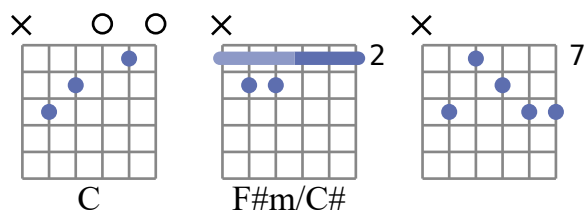> > Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

⑦

mytitle

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Lorem ipsum dolor.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

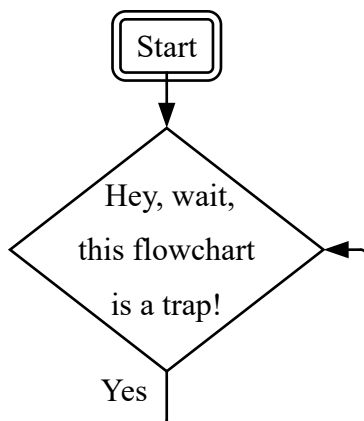**Lorem ipsum dolor.**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Lorem ipsum dolor.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

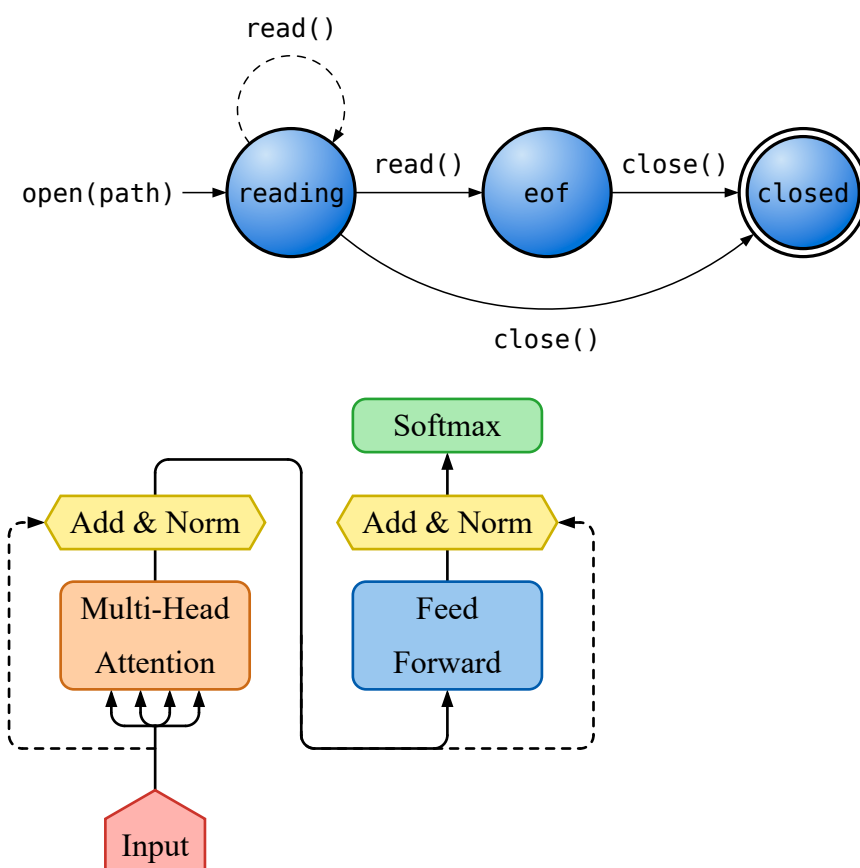**Lorem ipsum dolor.**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

Lorem ipsum dolor.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do.

C   F#m/C#

1.8 测试 **fletcher**

Start

Hey, wait, this flowchart is a trap!

Yes

read()

open(path) → **reading** → read() → **eof** → close() → **closed**

close()

Softmax

Add & Norm　　　　Add & Norm

Multi-Head Attention　　　　Feed Forward

Input

1.9　测试 gentle

> **ⓘ Info**
>
> This is the info clue …

> **🔥 Best tip ever**
>
> Check out this cool package

> **❓ Question**
>
> This is the info clue …

> **❝ Quote**
>
> This is the info clue …

> **🧪 Example**
>
> This is the info clue …

1.10　测试 badgery

Gray badge　Red badge　Yellow badge

Green badge　Blue badge　Purple badge　Click me
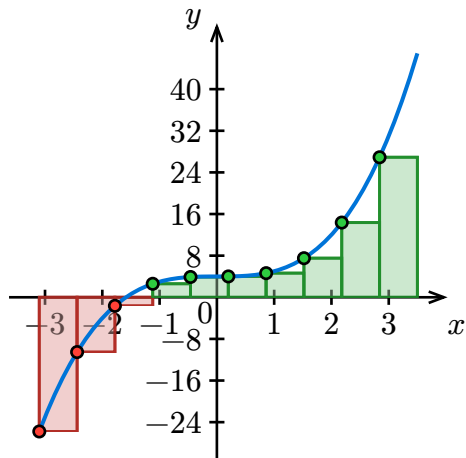
File ⟩ New File...

Menu ⟩ Sub-menu ⟩ Sub-sub menu ⟩ Action

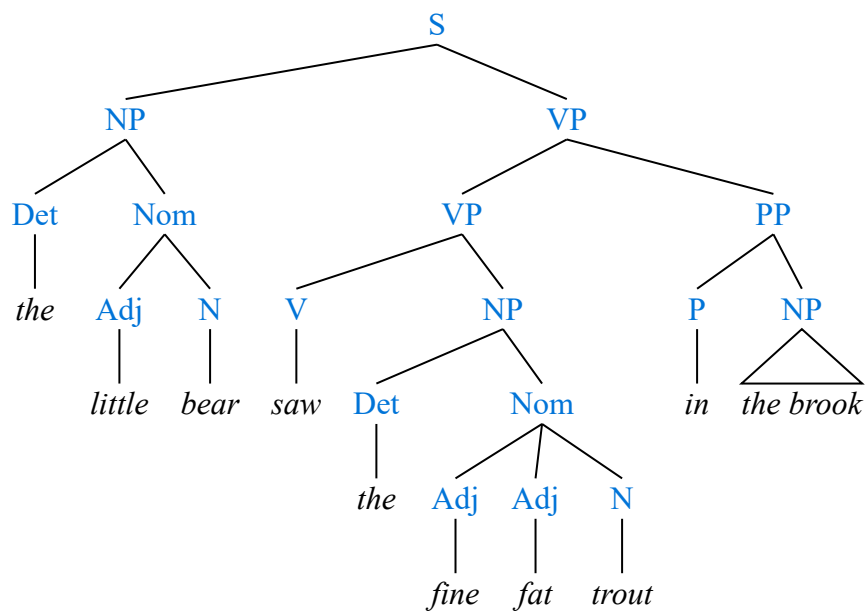## 1.11　测试 chromo

1.12　测试 riesketcher

1.13　测试 syntree

图 1.13.4: Example of a syntax tree.

1.14　测试 mitex

$$f(x) = \int_{-\infty}^{\infty} \hat{f}(\xi)\, e^{2\pi i \xi x}\, d\xi$$

1.15　测试 easytable

Header 1	Header 2	Header 3
How	I	want
a	drink,	alcoholic
of	course,	after
the	heavy	lectures
involving	quantum	mechanics.

表 1.15.5: 表格示例

Header 1	Header 2	Header 3
How	I	want
a	drink,	alcoholic
of	course,	after
the	heavy	lectures
involving	quantum	mechanics.

Header 1	Header 2	Header 3
How	I	want
a	drink,	alcoholic
of	course,	after
the	heavy	lectures
involving	quantum	mechanics.

1.16 测试 algo

```
FIB (n):
 1 if n < 0:
 2 |   return null
 3 if n = 0 or n = 1:
 4 |   return n
 5
 6 let x ← 0
 7 let y ← 1
 8 for i ← 2 to n − 1:  ▷ so dynamic!
 9 |   let z ← x + y
10 |   x ← y
11 |   y ← z
12
13 return x + y
```

indent-guides: 1pt + black

main-text-styles: (size: 15pt)

```
FLOYD-WARSHALL(V, E, w):
 1  Let dist[u, v] ← ∞ for u, v in V
 2  For (u, v) in E:
 3  │   dist[u, v] ← w(u, v)                              // edge weights
 4  For v in V:
 5  │   dist[v, v] ← 0                                    // base case
 6
 7  For k ← 1 to |V|:
 8  │   For i ← 1 to |V|:
 9  │   │   For j ← 1 to |V|:
10  │   │   │   // if new path is shorter, reduce distance
11  │   │   │   If dist[i, j] > dist[i, k] + dist[k, j]:
12  │   │   │   │   dist[i, j] ← dist[i, k] + dist[k, j]
13
14  Return dist
```

1.17   测试 theorems

Definition 1.17.1: A natural number is called a *prime number* if it is greater than 1 and cannot be written as the product of two smaller natural numbers.

Example: The numbers 2, 3, and 17 are prime. Corollary 1.17.1.1 shows that this list is not exhaustive!

Theorem 1.17.1 (Euclid): There are infinitely many primes.

Proof: Suppose to the contrary that $p_1, p_2, ..., p_n$ is a finite enumeration of all primes. Set $P = p_1 p_2 ... p_n$. Since $P + 1$ is not in our list, it cannot be prime. Thus, some prime factor p_j divides $P + 1$. Since p_j also divides P, it must divide the difference $(P + 1) - P = 1$, a contradiction. ∎

Corollary 1.17.1.1: There is no largest prime number.

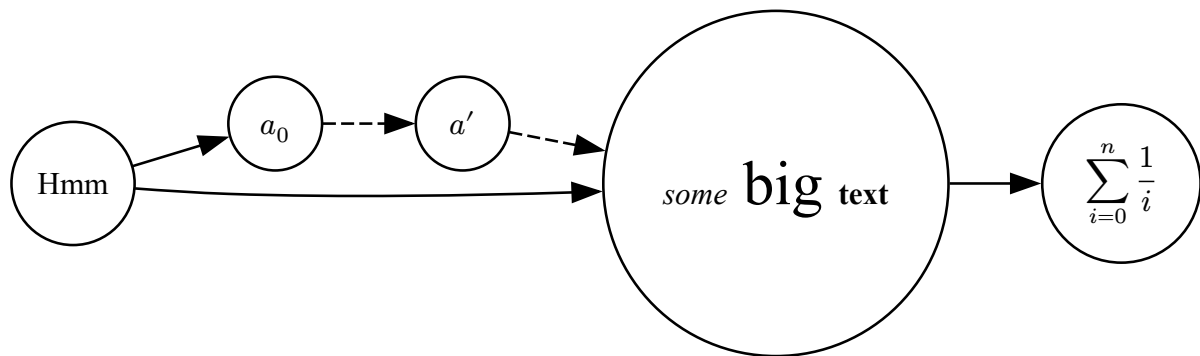**Corollary 1.17.1.2**: There are infinitely many composite numbers.

Theorem 1.17.2: There are arbitrarily long stretches of composite numbers.

Proof: For any $n > 2$, consider

$$n! + 2, \quad n! + 3, \quad ..., \quad n! + n$$

∎

1.18　测试 **diagraph**

1.19　测试 **xarrow**

$$a \xleftarrow{\mathbb{Q},1+1^4} b$$

$$c \xrightsquigarrow{\text{very long boi}} d$$

$$a \xrightarrow[\text{NP } \overset{*}{\Sigma}]{c} b \times 4$$

1.20　测试 **drafting**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus. You can provide two positional arguments if you want to highlight a phrase associated with your note.

Hello, world!

The first is text which should be inline-noted, and the second is the standard margin note.

When notes are about to overlap, they're automatically shifted

To avoid collision

> Be aware that `typst` will complain when 4 notes overlap, and stop automatically avoiding collisions when 5 or more notes overlap. This is because the compiler stops attempting to reposition notes after a few attempts (initial layout + adjustment for each note).
> You can manually adjust the position of notes with `dy` to silence the warning.