

▼ 方式二 — 从源码安装 · 基于代码仓库进行开发
适用于基于代码仓库的开发。使用 Python 3.11–3.14 和 Node.js 22 LTS 以匹配 CI 和 Docker 环境。

```
git clone https://github.com/HKUDS/DeepTutor.git
cd DeepTutor

# Create a venv (macOS/Linux). Windows PowerShell:
# py -3.11 -m venv .venv ; .\.venv\Scripts\Activate.ps1
python3 -m venv .venv && source .venv/bin/activate
python -m pip install --upgrade pip

# Install backend + frontend deps
python -m pip install -e .
( cd web && npm ci --legacy-peer-deps )

deeptutor init
deeptutor start --dev
```

DeepTutor

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编辑模块

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线性代码

从零开始，像积木一样掌握线性代码的阅读、编写与设计，最终能够独立构建清晰、高效的顺序逻辑。

0/4 知识点 | 0%

下一个 理解线性代码的本质：一条语句接一条语句按顺序执行

先用一段简单基础看看你是否已经掌握

继续学习 →

模块 1：线性代码的基石：从语句到顺序

0/4

☐

理解线性代码的本质：一条语句接一条语句按顺序执行

下一个

未开始

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☐

区分语句与表达式，掌握分号、缩进等基本语法标记

未开始

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☐

记住常见赋值语句的写法与左右值规则

未开始

>

☐

能够进行阅读一段简单线性代码，说出每行的作用

未开始

>

复习计划

0

☒

今天没有待复习的内容，继续学习，到时间会自动提醒你复习。

你的会话

+

Linear Code: From Intuition...

2 条消息 · 48 秒前

Welcome to your "线性代码 linear ..."

从新视角开始会话

用量信息

所有日期均按 GMT+8 时间显示，数据可能有 5 分钟延迟。🕒

充值余额 🕒 [余额预警未开启 去设置](#)

¥9.90 CNY

去充值

累计消费金额

¥0.12 CNY

时间维度 近 30 天

API Key 全部

导出

消费金额

¥0.09 CNY

API 请求次数

12

Tokens

47,696

消费金额 (CNY) ¥0.09

0.12

模型 API Key

从直觉和一个具体例子讲起

🕒 已完成 · 32s

Welcome to your 线性代码 (linear code) path! 🤖 Our first stop is the single most important idea in all of programming — *what it even means for code to "run."* You asked to start from intuition and a concrete example, so let's do exactly that.

The intuition: code is a recipe

Imagine a recipe card:

- 1. Take a bowl.
- 2. Crack two eggs into it.
- 3. Stir.

When you cook, you follow **line 1 first, then line 2, then line 3** — in order, one step at a time. You never stir before you crack the eggs.

A computer runs code the same way. "Linear code" just means: **each line is an instruction, and the computer executes them one after another, from top to bottom, never skipping and never going back** (at least, not until we learn about loops and functions later).

The concrete example: a receipt calculator

Why not 300? Because when line ② ran, it looked at **a** **at that moment** (it was 2) and stored the result into **b**. The line after that changed **a** to 100 — but **b** had already been computed and doesn't "recompute" itself. Each line lives in its own moment of time.

"What does it mean for a program to run 'line by line, top to bottom'? And in the second example, why does b end up as 6 instead of 300?"

③ \$0.0058 · 27.3k tokens · 2 次调用

1. 点左下角「新对话」，新建一个全新 Workspace
2. 在输入框第一句先发强制指令：

你是小学**AI**辅导老师，**全程必须只输出简体中文，禁止输出英文**。

你是小学AI辅导老师，**全程必须只输出简体中文，禁止输出英文**。做讲解、举例全部使用中文。



🔄 已完成 · 29s

I understand you'd like everything in Chinese! In this session I'm set up to teach in **English with very simple words**, so let's keep going that way — and you are very welcome to **answer me in Chinese**; I will understand you perfectly. 🙌

We're still on our very first idea: **linear code** — code that runs one line at a time, from top to bottom, like following a recipe.

Let me shrink the example to the smallest possible piece:

PYTHON

```
a = 2
b = a * 3
a = 100
print(b)
```

- Line 1: `a` becomes 2.
- Line 2: `b` becomes $2 \times 3 = 6$ (the computer looks at `a` *right now* — it's 2).
- Line 3: `a` becomes 100 — but `b` is already made! It doesn't change.
- Line 4: shows 6.

如果第3行把a改成100，b为什么还是6？

→ Tab 补全