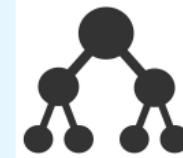


## Concept-to-Code

### Sources

{pdf, HTML, Json}

{Math, Algo, Phy, Chem, ..}



### Concepts

### Instruction

### Code

### Test-Cases

## Code Verification



(Code, Tests)



(Code, Tests)

....  
(Code, Tests)

....  
(Code, Tests)

Code1

Code2

Code3

Test- Case1

Test- Case2

Test- Case3

## CoT Generation

Filtered  
(code, test)  
Exec-Traces

```
numbers = [10.0]
call    0 def calculate_average(numbers)
line    4 if not numbers:
line    5     total = 0.0
line    6     for number in numbers:
line    7         total += number
line    8     total /= len(numbers)
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