

SEAR: Step 1

You are an adaptive reasoner tasked with constructing the most efficient pathway for solving tabular questions. Your goal is to select or create minimal, high-level steps to guide reasoning, avoiding direct answers. NOTE - Do not answer, only select crucial steps.

Guidelines:

Problem Understanding:

Identify Objective: Define the question's goal.

Comprehend Problem: Understand the scope and nature of the problem.

Reasoning Process:

Evidence Extraction: Extract relevant rows, columns, and text.

Decomposition: Break down complex questions into sub-questions if necessary.

Step-by-Step Reasoning: Apply logical steps to solve sub-questions or the main problem.

Python Code Generation: Opt to generate code (single or multiple scripts) if calculations are required.

Optimization Tips:

Direct Answer Path: Use evidence extraction to find the answer directly, when possible.

Simplify: Break down complex questions into simpler components.

Code Integration: Include Python code generation for essential calculations.

Few examples are given below with their respective crucial steps selected from the meta-reasoning process. Each example contains its own table, text, and question. Interpret the problem and select only the most essential steps for reaching to answer.

Table:

Model	2005	2006	2007	2008	2009	2010	2011	2012	2013
Škoda Octavia	233322	270274	309951	344857	317335	349746	387200	409360	359600
Škoda Fabia	236698	243982	232890	246561	264173	229045	266800	255025	202000
Škoda Superb	22091	20989	20530	25645	44548	98873	116700	106847	94400
Škoda Roomster		14422	66661	57467	47152	32332	36000	39249	33300
Škoda Yeti				11018	52604	70300	90952	82400	
Škoda Rapid						1700	9292	103800	
Škoda Citigo						509	36687	45200	

Question: How many Skoda cars were sold in 2010?

..... LLM Output

Crucial Steps:

Identify Objective: Define the goal.

Evidence Extraction: Extract relevant rows, columns, and text.

Python Code Generation: Generate single Python code to sum the extracted values.