Iteration 1 - Heterogeneous Structures Generation

N-1 S-1:

Step 1: Current Set= {1, 1, 4, 6},\tTwo Numbers= {1, 4},\tOperation= *,\tNew Number= 4,\tRemaining Numbers= {1, 6},\tNew Set= {4, 1, 6}.

N-3 S-2:

Step 2: Current Set= {4, 1, 6},\tTwo Numbers= {4, 6},\tOperation= *,\tNew Number= 24,\tRemaining Numbers= {1},\tNew Set= {24, 1}.

Q:

Four given numbers are: 1 1 4 6 \n\nAnswer: Let's think step by step.

score: 0.7   score: 0.7

N-4 S-2:

Step 2: Current Set= {4, 1, 6},\tTwo Numbers= {4, 6},\tOperation= *,\tNew Number= 24,\tRemaining Numbers= {1},\tNew Set= {24, 1}.

N-6 S-3:

Step 3: Current Set= {24, 1},\tTwo Numbers= {24, 1},\tOperation= -,\tNew Number= 23,\tRemaining Numbers= {},\tNew Set= {23}.

score: 1   score: 1

score: 0

score: 0

Structure 1   •••   **Structure 4**
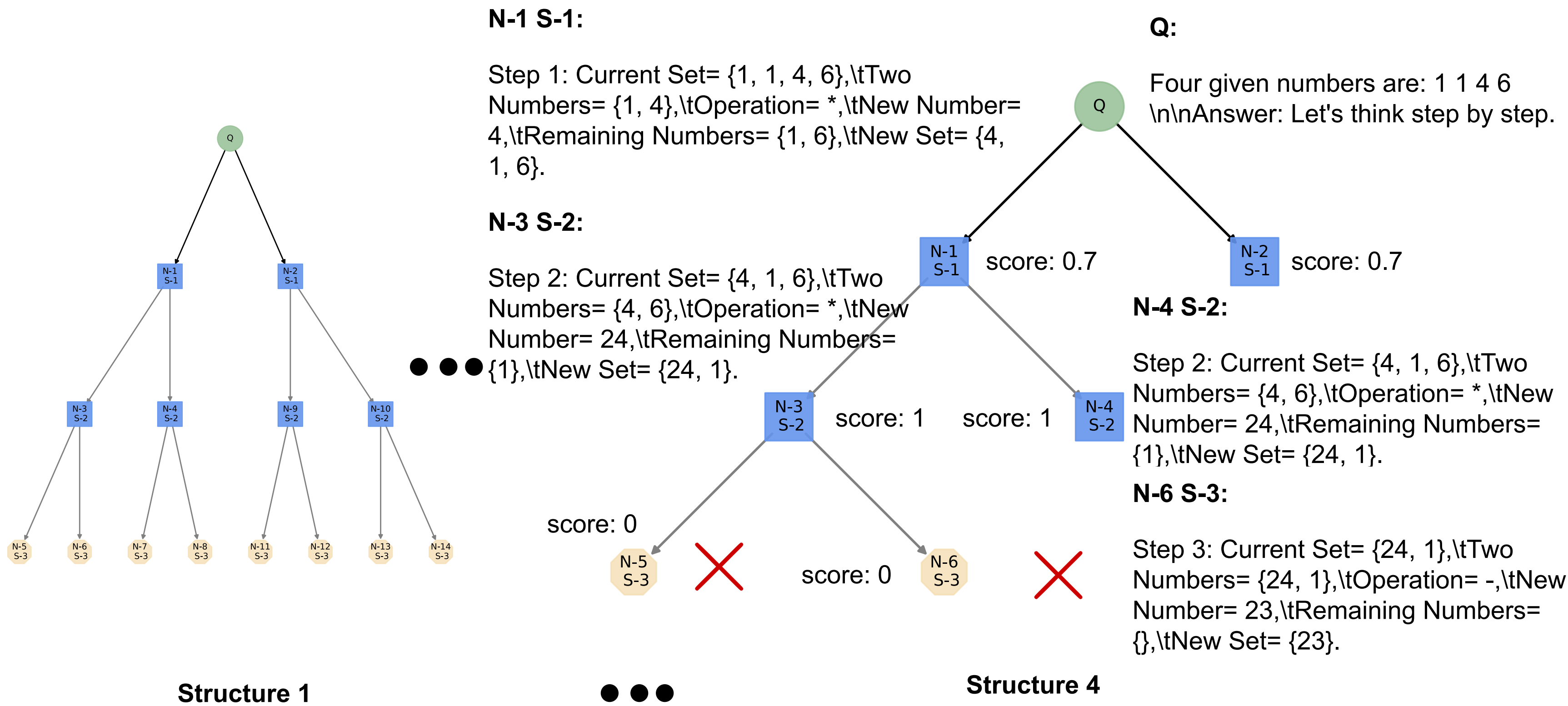
Best First Aggregation: <u>N-0 S-0 -> N-6 S-3</u> of Structure 4 with the best score of 1.7

Iteration 1 - Thought Chain Analysis as Experience

Analysis:

Step 1: The operation is correct. The multiplication of 1 and 4 gives 4. The remaining numbers and the new set are also correct.
Step 2: The operation is correct. The multiplication of 4 and 6 gives 24. The remaining numbers and the new set are also correct.
Step 3: The operation is incorrect. The subtraction of 24 and 1 gives 23, not 24. The remaining numbers and the new set are incorrect as well.

Advice:

Step 1: No advice needed. The step is correct.
Step 2: No advice needed. The step is correct.
Step 3: The operation should be adjusted to make the new number 24. Instead of subtracting 1 from 24, you should multiply 24 by 1. The remaining numbers and the new set should be adjusted accordingly. The new set should only contain 24.

Iteration 2 - Heterogeneous Structures Generation

N-1 S-1:

Step 1: Current Set= {1, 1, 4, 6},\tTwo Numbers= {1, 4},\tOperation= *,\tNew Number= 4,\tRemaining Numbers= {1, 6},\tNew Set= {4, 1, 6}.

N-3 S-2:

Step 2: Current Set= {4, 1, 6},\tTwo Numbers= {4, 6},\tOperation= *,\tNew Number= 24,\tRemaining Numbers= {1},\tNew Set= {24, 1}.

Q:

<Experiences> ... <\Experiences>

Four given numbers are: 1 1 4 6 \n\nAnswer: Let's think step by step.

N-4 S-2:

Step 2: Current Set= {4, 1, 6},\tTwo Numbers= {4, 6},\tOperation= +,\tNew Number= 10,\tRemaining Numbers= {1},\tNew Set= {10, 1}.

N-6 S-2:

Step 3: Current Set= {24, 1},\tTwo Numbers= {24, 1},\tOperation= *,\tNew Number= 24,\tRemaining Numbers= {},\tNew Set= {24}.

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