

LLAMA 3.1

Visual Aspects	PRC	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur	Colur
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1. Is the x-axis correctly assigned and labeled?	1	1	0	0	1	1	0	1	1	1	0	1	1	1	1	1	0	1	0	1	0	1	0	1	0	
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	
3. Are the axis labels clear and readable?	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	0	1	0	1	0	
4. Are the colors appropriately used to distinguish between different objects?	1	1	0	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	1	0	1	1	1	0	1	0	0	0	0	1	1	1	1	0	1	1	1	1	0	1	0	0	
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	0	1	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	
8. Is there a correct data-ink ratio to aid readability?	0	0	1	1	1	1	1	0	0	1	0	1	0	0	1	1	1	0	1	1	1	1	1	1	0	
TOTAL	5	6	4	7	7	8	3	3	5	5	0	4	5	5	7	6	1	5	5	6	5	7	3	5	2	
Code Aspects																										
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1	1	1	1	1	1	0	
3. Does the code correctly reference the column names in the dataset?	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	1	0	1	0	0	0	1	1	1	0	0	0	1	0	1	0	1	0	1	0	1	1	0	0	
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6. Does the generated code cover all different aspects of the user prompt?	1	0	0	1	0	0	0	1	1	0	0	0	1	1	0	1	0	0	1	1	0	1	1	0	0	
7. Does the code avoid redundant or unnecessary computations?	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
TOTAL	7	5	5	7	4	5	5	7	7	6	4	5	6	6	4	7	4	6	6	7	5	7	7	5	3	

Visual Aspects						PRC																			
Data Aspects																									
1. Is the selected graph aligned with the nature of the prompt and used data?		1	0	1	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	0	0
2. Does the code select the appropriate columns relevant to the user prompt?		1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Does the filtering process correctly reflect the user's intent?		0	1	1	1	1	0	0	0	1	0	1	0	0	1	0	0	0	0	1	1	0	0	0	0
4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?		1	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
5. Does the generated graph represent the correct subset of data requested?		1	0	0	1	0	1	0	1	1	1	0	0	1	1	0	1	0	0	1	0	0	0	0	1
6. Does the code correctly handle missing, null or unexpected values in the selected column(s)?		0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
7. Does the selected data cover all different aspects of the user prompt?		1	1	1	1	0	0	0	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	0	0
TOTAL		5	4	5	5	3	3	2	4	5	4	1	3	4	5	3	5	2	2	5	4	2	3	2	2
		SUM	AVG		EASY	MED	HARD																		
Visual		119	4.76	VIZ	5.285	5.090	3.714				Llama	AVG		Llama	EASY	MED	HARD								
Code		140	5.6	DATA	6.571	6.636	4.571				Visual	5.95		VIZ	6.607	6.363	4.642								
Data		85	3.4	CODE	4.285	3.454	2.428				Code	8		DATA	9.387	8.051	6.530								
				AVG	5.380	4.727	3.571				Data	4.857		CODE	6.122	4.935	3.469								
														AVG	7.372	6.450	4.880								

GEMMA 2

Visual Aspects	PRC	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1. Is the x-axis correctly assigned and labeled?	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	0	1	0	1	0	0	0	
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	
3. Are the axis labels clear and readable?	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	
5. Are accurate legends included if necessary?	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1	1	1	1	1	0	0	0	
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	1	0	1	1	0	0	1	0	0	0	1	1	1	0	1	0	1	1	1	0	1	1	0	0	
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	1	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
8. Is there a correct data-ink ratio to aid readability?	1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	
TOTAL	6	6	6	6	7	5	2	3	5	7	0	5	6	5	6	5	1	5	5	6	2	6	3	1	2	
CODE ASPECTS																										
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Does the code execute without any syntax errors and successfully generate a graph?	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	1	0	0	
3. Does the code correctly reference the column names in the dataset?	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	1	1	0	1	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	0	1	1	0	0	
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6. Does the generated code cover all different aspects of the user prompt?	1	0	1	1	1	0	0	1	1	1	0	1	0	1	1	1	0	1	1	1	0	1	1	1	0	
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	
TOTAL	7	5	7	6	6	5	5	7	7	7	3	6	5	6	7	7	4	6	6	7	3	7	7	5	3	
DATA ASPECTS																										

1. Is the selected graph aligned with the nature of the prompt and used data?	1	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	0	1	1	1	0	1	1	0	0
2. Does the code select the appropriate columns relevant to the user prompt?	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Does the filtering process correctly reflect the user's intent?	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	1
4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5. Does the generated graph represent the correct subset of data requested?	1	0	0	0	1	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
6. Does the code correctly handle missing or null values in the selected column(s)?	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7. Does the selected data cover all different aspects of the user prompt?	1	0	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	0	1	1	0	1	0	0	0
TOTAL	5	3	4	5	5	3	2	4	6	4	1	3	2	5	6	4	1	2	5	4	1	4	2	3	2

					EASY	MED	HARD																		
				VIZ	5.1428	4.7272	3.2857							Gemm	AVG		Gemm	EASY	MED	HARD					
	SUM	AVG		DATA	6.5714	5.8181	4.8571							Visual	5.55		VIZ	6.4285	5.9090	4.1071					
Visual	111	4.44		CODE	4.2857	3.4545	2.5714							Code	8.2285		DATA	9.3877	8.3116	6.9387					
Code	144	5.76		AVG	5.3333	4.6666	3.5714							Data	4.9142		CODE	6.1224	4.9350	3.6734					
Data	86	3.44															AVG	7.3125	6.3852	4.9064					

QWEN 2.5

Visual Aspects		PRC	Colur	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. Is the x-axis correctly assigned and labeled?		1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	0	1	0	1	0	0	0
2. Is the y-axis correctly assigned and labeled?		1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	0	1	1	0	0
3. Are the axis labels clear and readable?		0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0
4. Are the colors appropriately used to distinguish between different objects?		1	1	0	1	0	0	0	0	1	1	0	0	1	1	0	0	0	1	1	0	0	1	0	0	1
5. Are accurate legends included if necessary?		1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	0	0	1
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?		0	1	1	1	1	1	1	1	0	0	0	1	1	1	0	1	0	1	1	1	0	0	1	0	0
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?		1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0
8. Is there a correct data-ink ratio to aid readability?		0	1	1	1	1	1	1	0	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0	0
TOTAL		5	8	7	6	6	6	7	4	5	5	0	4	6	6	0	6	1	8	7	6	2	7	3	0	2
Code Aspects																										
1. Does the code correctly import and use the libraries necessary for graph generation?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Does the code execute without any syntax errors and successfully generate a graph?		1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1	1	0	1	1	0	0
3. Does the code correctly reference the column names in the dataset?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?		1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	1	1	0
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Does the generated code cover all different aspects of the user prompt?		1	1	1	1	0	1	1	1	1	0	0	1	0	1	1	1	0	1	1	1	0	1	1	1	0
7. Does the code avoid redundant or unnecessary computations?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
TOTAL		7	7	7	6	6	7	7	7	7	6	4	6	6	6	5	7	4	7	7	7	3	7	7	5	3
Data Aspects																										

1. Is the selected graph aligned with the nature of the prompt and used data?																									
	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	0	1	1	0	0
2. Does the code select the appropriate columns relevant to the user prompt?																									
	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Does the filtering process correctly reflect the user's intent?																									
	0	1	1	1	1	0	1	0	1	0	1	1	1	1	0	1	0	1	1	1	0	0	0	0	0
4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?																									
	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0
5. Does the generated graph represent the correct subset of data requested?																									
	1	1	1	0	0	1	1	1	1	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1
6. Does the code correctly handle missing or null values in the selected column(s)?																									
	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0
7. Does the selected data cover all different aspects of the user prompt?																									
	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	1	1	0	1	0	1	0
TOTAL																									
	5	6	6	5	4	4	6	4	5	4	1	3	5	5	3	4	1	7	5	5	1	3	2	4	2

CLAUDE 3.5

Visual Aspects	PRC	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
3. Are the axis labels clear and readable?	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	1	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	0	1	0	1	0	1	0	1	1	0	0	1	0	1	1	0	1	1	0	1	1	0	0	0	
8. Is there a correct data-ink ratio to aid readability?	0	1	0	1	1	1	1	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	
TOTAL	5	6	5	6	7	6	7	3	5	8	6	6	6	5	6	6	5	7	7	6	7	8	3	0	2	
CODE ASPECTS																										
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	
3. Does the code correctly reference the column names in the dataset?	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	0	0	0	1	0	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	0	
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	
TOTAL	7	5	5	6	7	6	7	7	7	6	5	5	5	3	6	5	3	7	7	7	6	7	7	5	3	
DATA ASPECTS																										

1. Is the selected graph aligned with the nature of the prompt and used data?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0
2. Does the code select the appropriate columns relevant to the user prompt?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Does the filtering process correctly reflect the user's intent?	0	0	1	1	0	1	0	0	1	1	1	1	1	0	1	1	0	1	1	1	1	0	0	1
4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0
5. Does the generated graph represent the correct subset of data requested?	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	1	0	1	0	0	1	1	0	0
6. Does the code correctly handle missing or null values in the selected column(s)?	0	0	1	0	1	0	1	0	0	1	1	1	0	1	1	0	1	1	1	1	1	0	1	0
7. Does the selected data cover all different aspects of the user prompt?	1	0	0	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	1	0	1	0
TOTAL	5	3	4	5	5	5	6	4	5	5	6	6	5	3	5	5	3	7	5	5	5	7	2	4

					EASY	MED	HARD																	
	SUM	AVG		VIZ	5.8571	5.1818	5.7142					Claude	AVG		Claude	EASY	MED	HARD						
Visual	138	5.52		DATA	6.2857	5.5454	5.5714					Visual	6.9		VIZ	7.3214	6.4772	7.1428						
Code	144	5.76		CODE	5.2857	4.0909	5					Code	8.2285		DATA	8.9795	7.9220	7.9591						
Data	117	4.68		AVG	5.8095	4.9393	5.4285					Data	6.6857		CODE	7.5510	5.8441	7.1428						
															AVG	7.9506	6.7478	7.4149						

DEEPSEEK-CHAT

Visual Aspects	PRO	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0		
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1		
3. Are the axis labels clear and readable?	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0		
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	0	1	0	0	0	1	1	1	0	1	1	1	0	1	1	1	0	1	1	0	0	0		
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0		
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0		
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	0	1	0	1	0	1	0	0	1	0	0	1	0	1	0	0	1	1	0	1	1	0	0	0		
8. Is there a correct data-ink ratio to aid readability?	0	1	0	1	1	1	1	0	1	1	1	0	0	0	0	1	0	1	1	1	1	1	1	0	1		
	5	6	5	6	8	6	7	3	7	8	6	4	6	5	6	6	5	8	7	6	7	8	3	0	2		
CODE ASPECTS																											
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0	0		
3. Does the code correctly reference the column names in the dataset?	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0		
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	0	0	0	1	0	1	1	1	1	0	0	1	0	1	1	0	1	1	1	1	1	1	1	0		
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0		
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1		
	7	5	5	6	7	6	7	7	7	7	5	6	7	3	6	7	3	7	7	7	6	7	7	5	3		
DATA ASPECTS																											

1. Is the selected graph aligned with the nature of the prompt and used data?																								
1111111111111111111101100																								
2. Does the code select the appropriate columns relevant to the user prompt?																								
1111111111111111111111111																								
3. Does the filtering process correctly reflect the user's intent?																								
00111100111101001111001																								
4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?																								
10001010001000001100100																								
5. Does the generated graph represent the correct subset of data requested?																								
110111111111010010011000																								
6. Does the code correctly handle missing or null value in the selected column(s)?																								
001010100011001111011101																								
7. Does the selected data cover all different aspects of the user prompt?																								
100111111101011011111010																								
5345756456636355375557242																								
					EASY	MED	HARD																	
	SUM	AVG		VIZ	5.5714	5.4545	5.8571				Deeps	AVG		Deeps	EASY	MED	HARD							
Visual	140	5.6		DATA	6.7142	5.8181	5.5714		Does pretty w	Visual	7		VIZ	6.9642	6.8181	7.3214								
Code	150	6		CODE	4.8571	4.4545	5			Code	8.5714		DATA	9.5918	8.3116	7.9591								
Data	118	4.72		AVG	5.7142	5.2424	5.4761			Data	6.7428		CODE	6.9387	6.3636	7.1428								
													AVG	7.8316	7.1645	7.4744								

GEMINI 2.0 FLASH THINKING

Visual Aspects	PRC	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	0	1	1	1	0	0	0	
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
3. Are the axis labels clear and readable?	0	0	1	1	1	1	1	1	0	1	1	0	1	0	0	0	0	1	1	1	1	1	0	0	0	
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	0	1	1	0	1	1	1	1	0	1	1	1	1	1	0	1	0	1	1	0	0	0	
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	1	0	1	0	1	1	0	1	0	0	1	1	1	1	1	1	1	0	1	1	0	1	0	0	
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	0	1	0	1	1	1	0	0	1	1	0	0	0	1	1	0	0	1	0	1	1	0	0	0	
8. Is there a correct data-ink ratio to aid readability?	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	0	1	
	5	6	7	6	7	8	7	5	6	7	7	5	6	5	6	6	5	5	6	6	8	7	3	0	2	
Code Aspects																										
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	
3. Does the code correctly reference the column names in the dataset?	1	0	1	1	1	1	1	0	1	1	0	1	0	1	1	1	0	1	1	1	1	1	1	0	0	
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	0	0	0	1	1	1	0	0	1	0	0	0	1	1	0	0	1	1	1	1	1	1	1	0	
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	0	1	1	1	1	1	1	0	
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	
	7	5	6	6	6	7	7	2	5	7	2	6	3	5	6	5	3	6	7	7	6	7	7	5	3	
Data Aspects																										

[illegible]

GPT-4O

Visual Aspects	PRC	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun	Colun
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1	0	0	0
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1
3. Are the axis labels clear and readable?	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	0	0	0
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	1	0	1	0	1	1	0	0	1	0	0	1	1	0	1	1	1	0	0	0	0	1	0	0
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	0	1	0	1	0	1	0	1	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0	0
8. Is there a correct data-ink ratio to aid readability?	0	1	0	1	1	1	1	1	0	1	1	0	0	1	1	0	1	1	1	1	0	1	1	0	1
	5	6	5	6	7	6	8	5	5	8	5	3	6	5	6	6	5	5	6	4	0	7	3	0	2
Code Aspects																									
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	0	1	1	1	1	0	1	1	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0
3. Does the code correctly reference the column names in the dataset?	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	0
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	0	0	0	1	0	1	0	0	1	1	0	0	1	1	0	0	1	1	0	1	1	1	1	0
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	0	1	1	1	1	1	0	1	1	0	0	1	0	0	1	1	1	1	1	1	0
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7	5	5	6	6	6	7	5	6	7	5	5	5	5	6	5	3	6	7	5	5	7	7	5	3
Data Aspects																									

1. Is the selected graph aligned with the nature of the prompt and used data?																										
		1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	
2. Does the code select the appropriate columns relevant to the user prompt?																										
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3. Does the filtering process correctly reflect the user's intent?																										
		0	0	1	1	0	1	0	0	0	1	0	1	1	1	1	1	0	0	1	0	0	1	0	0	1
4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?																										
		1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0
5. Does the generated graph represent the correct subset of data requested?																										
		1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0	0	0	1	0	0	0	0
6. Does the code correctly handle missing or null values in the selected column(s)?																										
		0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	0	1	1	1	1	1	0	1	0	0
7. Does the selected data cover all different aspects of the user prompt?																										
		1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	1	0	1	1	0	1	0
		5	3	4	5	3	5	6	4	5	5	4	3	5	4	5	5	3	4	5	3	4	7	2	4	2
						EASY	MED	HARD																		
		SUM	AVG		VIZ	5.4285	5	4.4285				GPT4	AVG		GPT4	EASY	MED	HARD								
Visual Code Data		124	4.96		DATA	6	5.4545	5.2857				Visual	6.2		VIZ	6.7857	6.25	5.5357								
		139	5.56		CODE	4.8571	3.8181	4.1428				Code	7.9428		DATA	8.5714	7.7922	7.5510								
		105	4.2		AVG	5.4285	4.7575	4.6190				Data	6		CODE	6.9387	5.4545	5.9183								
															AVG	7.4311	6.4989	6.3350								

O1-HIGH

Visual Aspects	PRO	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column	Column
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
3. Are the axis labels clear and readable?	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	0	0	1	1	1	1	0	0	0
4. Are the colors appropriately used to distinguish between different objects?	1	1	0	0	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0	0
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	0	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	0	0	0	1	0	1	1	0	0	0
8. Is there a correct data-ink ratio to aid readability?	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1
	5	7	7	6	8	7	7	7	7	8	6	6	7	5	6	6	6	6	7	6	8	7	3	0	2
CODE ASPECTS																									
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	0	0
3. Does the code correctly reference the column names in the dataset?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	0	1	1	0	1	1	1	1	0
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	0
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1
	7	7	7	7	7	7	7	7	7	7	6	6	7	3	6	7	4	7	7	6	6	7	7	5	3
DATA ASPECTS																									

[illegible]

O1-HIGH + ADDITIONAL CONTEXT

Visual Aspects		PRO	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr	Colurr
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. Is the x-axis correctly assigned and labeled?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
2. Is the y-axis correctly assigned and labeled?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
3. Are the axis labels clear and readable?		0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	0	0	0
4. Are the colors appropriately used to distinguish between different objects?		1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0
5. Are accurate legends included if necessary?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?		0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?		1	0	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	0	0	1	0	0	0
8. Is there a correct data-ink ratio to aid readability?		0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1
		5	6	5	7	8	8	8	8	7	8	8	6	7	5	6	8	8	8	7	6	4	8	3	0	2
Code Aspects																										
1. Does the code correctly import and use the libraries necessary for graph generation?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Does the code execute without any syntax errors and successfully generate a graph?		1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1
3. Does the code correctly reference the column names in the dataset?		1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?		1	0	0	1	1	1	1	1	1	1	0	0	1	0	1	1	0	1	1	1	1	1	1	1	0
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Does the generated code cover all different aspects of the user prompt?		1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0
7. Does the code avoid redundant or unnecessary computations?		1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
		7	5	5	7	7	7	7	7	7	7	6	6	7	3	6	7	4	7	7	7	6	7	7	6	4
Data Aspects																										

CLAUDE 3.7 + FEEDBACK LOOP

Visual Aspects	PRO																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Are the axis labels clear and readable?	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	0	0	1	0	1	1	1	0	0	1	0	0	0	0	0	0	1	1	0	0	1	0	1	0	1
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
8. Is there a correct data-ink ratio to aid readability?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7	7	8	7	8	6	8	7	6	8	7	7	7	7	7	6	8	8	6	7	8	7	6	7	8
Code Aspects																									
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Does the code correctly reference the column names in the dataset?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	6	7	7	7	7	7
Data Aspects																									

CLAUDE 3.7 + FEEDBACK LOOP + ADDITIONAL CONTEXT

Visual Aspects	PRO	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn	Colunn
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1. Is the x-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Is the y-axis correctly assigned and labeled?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3. Are the axis labels clear and readable?	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
4. Are the colors appropriately used to distinguish between different objects?	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	
5. Are accurate legends included if necessary?	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
6. Is there an appropriate aspect ratio and scaling to avoid misleading information?	1	1	1	0	0	1	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	0	
7. Are the marks (data points, bars, lines, etc.) displayed in a way that correctly represents the values?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	
8. Is there a correct data-ink ratio to aid readability?	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	
	8	8	8	7	6	8	7	7	7	6	8	6	7	7	7	8	8	5	8	8	7	7	8	8	7	
Code Aspects																										
1. Does the code correctly import and use the libraries necessary for graph generation?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2. Does the code execute without any syntax errors and successfully generate a graph?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3. Does the code correctly reference the column names in the dataset?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4. Does the code correctly filter the dataset based on the user's specified conditions (e.g. location and year)?	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	
5. Does the code avoid hardcoding data or column names and instead handle them accordingly?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6. Does the generated code cover all different aspects of the user prompt?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	
7. Does the code avoid redundant or unnecessary computations?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	7	7	6	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	7	6	6	
Data Aspects																										
1. Is the selected graph aligned with the nature of the prompt and used data?	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	

	2. Does the code select the appropriate columns relevant to the user prompt?																											
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	3. Does the filtering process correctly reflect the user's intent?																											
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1		
	4. Are the correct aggregation operations (e.g. sum, average, median, etc.) applied where necessary?																											
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
	5. Does the generated graph represent the correct subset of data requested?																											
	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0		
	6. Does the code correctly handle missing or null values in the selected column(s)?																											
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1		
	7. Does the selected data cover all different aspects of the user prompt?																											
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	7	7	6	7	7	7	7	7	7	7	7	7	7	7	5	6	6	7	7	7	6	7	7	5	5			

					EASY	MED	HARD																				
	SUM	AVG		VIZ	7.2857	7.3636	7							SCALED OUT OF 10			CLAU	EASY	MED	HARD							
Visual	181	7.24		DATA	7	6.9090	6.4285							AVG			VIZ	9.1071	9.2045	8.75							
Code	170	6.8		CODE	6.8571	6.7272	6.1428							9.7142			DATA	10	9.8701	9.1836							
Data	165	6.6		AVG	7.0476	7	6.5238							9.4285			CODE	9.7959	9.6103	8.7755							
																	AVG	9.6343	9.5616	8.9030							