Rubrics Q1	Weight (100)	Zero (0%)	Poor (20%)	Pass (40%)	Good (60%)	Excellent (80%)	Outstanding (100%)
Basic Function	40	No answer or all normal test cases failed	Iterative implementation	Recursive implementation, errors in normal test cases.	Recursive implementation, no error in normal test cases. Incorrect stack usage, caller/callee saved registers, other MIPS usage errors.	Recursive implementation, no error in normal test cases. Good stack usage, caller/callee saved registers, no MIPS usage errors.	Excellent level + special considerations in pipeline, data/control hazards (Encourage self-explorations).
Prompt	20	No prompt		Basic prompt to allow user's input	Advanced prompt to guide user's input to ensure normal input cases.	Advanced prompt to guide user's input and warn consequences of abnormal input. Present informative message to let user know of abnormal results. Ensure service availability.	
Documentation	20	No comment. Very poor coding style.	Few comments. Poor coding style	Insufficient comments. Good coding style.	Comments on key instructions. Good coding style.	Clear comments to explain the logic flow. Good coding style.	Professional comments explaining program information, input/output, design tradeoff/considerations, etc. Good coding style.
Input Test	20	No input test.	Evidence of attempted input test, but failed.	Attempted input test, only ensuring normal input.	Identify one type of abnormal input, reply with corresponding prompt	Identify and handle two types of abnormal input, reply with corresponding prompt	Identify and handle more than two types of abnormal input. Reply with excellent prompt for user's next input. Exhibit intelligence.

Rubrics Q2A	Weight (100)	Zero (0%)	Poor (20%)	Pass (40%)	Good (60%)	Excellent (80%)	Outstanding (100%)
Basic Function	40	No answer or all normal test cases failed	String implementation, namely take a string as input and take the corresponding string (replace integer, char, or % syscalls) as output. 2 or more of print %s, %c, %%, %d do not work. Print integer behavior not same as skeleton.	Print integer behavior same as skeleton. At most one print string, char, or % fails to work on normal input.	All prints work correctly on normal input. Some faults in MIPS usage, stack usage, caller/callee saved registers, etc.	All prints work correctly on normal input. Good stack usage, caller/callee saved registers, no MIPS usage errors, etc.	Excellent level + special considerations in pipeline, data/control hazards (Encourage self-explorations).
Prompt	20	No prompt		Basic prompt to allow user's input	Advanced prompt to guide user's input to ensure normal input cases.	Advanced prompt to guide user's input and warn consequences of abnormal input. Present informative message to let user know of abnormal results. Ensure service availability.	
Documentation	20	No comment. Very poor coding style.	Few comments. Poor coding style	Insufficient comments. Good coding style.	Comments on key instructions. Good coding style.	Clear comments to explain the logic flow. Good coding style.	Professional comments explaining program information, input/output, design tradeoff/considerations, etc. Good coding style.
Input Test	20	No input test.	Evidence of attempted input test, but failed.	Attempted input test, only ensuring normal input.	Identify one type of abnormal input, reply with corresponding prompt	Identify and handle two types of abnormal input, reply with corresponding prompt	Identify and handle more than two types of abnormal input. Reply with excellent prompt for user's next input. Exhibit intelligence.

Rubrics Q2B	Weight (100)	Zero (0%)	Poor (20%)	Pass (40%)	Good (60%)	Excellent (80%)	Outstanding (100%)
Functionality	80	No answer. All normal test cases failed.	Errors in at least one normal test cases.	No error in normal test cases. One or two variety of normal cases considered, OR one or two variety of abnormal cases considered. Output of abnormal cases identical to the program output.	No error in normal test cases. Three to five variety of normal cases considered, AND three to five variety of abnormal cases considered. Output of abnormal cases identical to the program output.	Higher number of varieties of both normal and abnormal cases considered, beyond Good level + good efforts correcting abnormal cases.	Excellent level + outstanding efforts correcting abnormal cases.
Documentation	20	Nothing meaningful provided.		Basic and sufficiently providing input and output for each case.		Excellent description of the cases and related accessory information provided.	

Rubrics Q2C	Weight (100)	Zero (0%)	Poor (20%)	Pass (40%)	Good (60%)	Excellent (80%)	Outstanding (100%)
Basic Function	40	No answer or all normal test cases failed	String implementation, namely take a string as input and take the corresponding string (replace integer, char, or % syscalls) as output. 2 or more of print %S, %s, %c, %%, %d do not work. Print integer behavior not same as skeleton.	Print integer behavior same as skeleton. At most one print strings, char, or % fails to work on normal input.	All prints work correctly on normal input. Some faults in MIPS usage, stack usage, caller/callee saved registers, etc.	All prints work correctly on normal input. Good stack usage, caller/callee saved registers, no MIPS usage errors, etc.	Excellent level + special considerations in pipeline, data/control hazards (Encourage self-explorations).
Prompt	20	No prompt		Basic prompt to allow user's input	Advanced prompt to guide user's input to ensure normal input cases.	Advanced prompt to guide user's input and warn consequences of abnormal input. Present informative message to let user know of abnormal results. Ensure service availability.	
Documentation	20	No comment. Very poor coding style.	Few comments. Poor coding style	Insufficient comments. Good coding style.	Comments on key instructions. Good coding style.	Clear comments to explain the logic flow. Good coding style.	Professional comments explaining program information, input/output, design tradeoff/considerations, etc. Good coding style.
Input Test	20	No input test.	Evidence of attempted input test, but failed.	Attempted input test, only ensuring normal input.	Identify one type of abnormal input, reply with corresponding prompt	Identify and handle two types of abnormal input, reply with corresponding prompt	Identify and handle more than two types of abnormal input. Reply with excellent prompt for user's next input. Exhibit intelligence.

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