1. Write a program that declares 3 strings. The first named first should be set to the value "Monday", and be stored on the stack frame for main. second should be a string literal with the value "Tuesday". third should have value "Wednesday" and be on the heap. The pointers for second and third will be in stack frame for main.

Then beside it, draw the memory model for your program after all three strings have been created.

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All string literals in	Section	Address	Value	Label
int main(void) { The code are store in read only memory	Read-only	0x100	Mond	
char first [] = "Monday". array on stack in thialized with the string literal string literal	د	0x104	a 9 10	
in Itialized with the dring 1. teral string literal		0x108	Tues	
Char * second = "Tuesday"		0x10c	dayo	
char + third = malloc(10);			wedn	
Strucpy (third, "Wednesday"	10):		esda y vo:	
	Heap	=	wedn	
		0x240	esda	
char * String-list 231;		0x244	910	
String-list (0) = first;		0x248		
String-list [i] = Second;		0x24c		
String_list [0] = first; String_list [i] = Second; String_list [2] = third;		0x250		
		:	:	
	stack frame for main	0x454	Mond	First
		0x458	ay 10	
		0x45c	9×108	Second
		0x460		
		0x464	0x23c	third
		0x464] string.lis
because to		0x468	0x 454	3114.31.3
used as of the other	apointer to	0x46c		1
		0x470	. 0x 108	
		0x474		
		0x478	.Ox 23c	
				1

CSC209H Worksheet: Strings

- 2. Add to your program so that it declares an array string_list of 3 pointers to char and point the elements to first, second, and third, respectively. So now you have an array of strings. Where is the memory allocated for this array? Add to your memory model diagram as well.
- 3. So far much of the allocation has happened in the function main. Write a new function build_month_list that allocates, initializes and returns an array of 3 strings with the values "January", "February", and "March". All the strings should be mutable.

In addition to writing the code, draw a memory diagram illustrating where values are stored immediately before build_month_list returns.

is try drawing, it yourself.