ASSIGNMENT-9

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Q1. Use around 16 built-in functions of string in
program
#include <stdio.h>
#include <string.h>
int main() {
char str1[100] = "Hello, World!";
char str2[100] = "Hello, C!";
char str3[100];
char *ptr;
// 1. strlen()
printf("Length of str1: %lu\n", strlen(str1));
// 2. strcpy()
strcpy(str3, str1);
printf("Copied string: %s\n", str3);
// 3. strcat()
strcat(str3, " This is a test.");
printf("Concatenated string: %s\n", str3);
// 4. strcmp()
printf("Comparison of str1 and str2: %d\n", strcmp(str1, str2));
// 5. strncmp()
printf("Comparison of first 5 characters of str1 and str2: %d\n",
strncmp(str1, str2, 5));
// 6. strchr()
ptr = strchr(str1, 'W');
printf("Character 'W' found at: %s\n", ptr);
// 7. strrchr()
ptr = strrchr(str1, 'o');
printf("Last occurrence of 'o' found at: %s\n", ptr);
// 8. strstr()
ptr = strstr(str1, "World");
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printf("Substring 'World' found at: %s\n", ptr);
// 9. strdup()
char *duplicate = strdup(str1);
printf("Duplicated string: %s\n", duplicate);
free(duplicate);
// 10. strlwr()
printf("String in lowercase: %s\n", strlwr(str1));
// 11. strupr()
printf("String in uppercase: %s\n", strupr(str1));
// 12. strrev()
printf("Reversed string: %s\n", strrev(str1));
// 13. strset()
strset(str1, 'x');
printf("String with all characters set to 'x': %s\n", str1);
// 14. strnset()
strnset(str1, 'y', 5);
printf("First 5 characters set to 'y': %s\n", str1);
// 15. strncat()
strncat(str1, str2, 5);
printf("Concatenated string with 5 characters from str2: %s\n", str1);
// 16. strtok()
char *token = strtok(str1, ", ");
while (token != NULL) {
printf("Token: %s\n", token);
token = strtok(NULL, ", ");
}
return 0;
}
```