

Q1	Take an integer $n$ as an input and find the sum of the series up to $n$ th term using recursion and show the simulation of the recursion for $n = 5$ $1 * 3 + 2 * 5 + 4 * 7 + 8 * 9 + \dots + nth\ term$	[5]								
Q2	<p>Function <b>find_substr( )</b> takes two string arrays (a, b) as parameters, uses function <b>str_length()</b> to determine the lengths of the strings, and then looks for the smaller string anywhere in the bigger string. It returns 1 if the substring is found, or returns -1 if no match is found.</p> <p>Write the two functions. Take two strings as input in the main method and use <b>find_substr()</b> to check if the second string is a substring of the first one.</p> <p>[Restriction: str_length() cannot uses built-in strlen() function]</p> <table><tr><th>Sample input</th><th>Sample output</th></tr><tr><td>madam adam</td><td>adam is a substring of madam</td></tr><tr><td>telescope less</td><td>less is not a substring of telescope</td></tr><tr><td>101010 101</td><td>101 is a substring of 101010</td></tr></table>	Sample input	Sample output	madam adam	adam is a substring of madam	telescope less	less is not a substring of telescope	101010 101	101 is a substring of 101010	[5]
Sample input	Sample output									
madam adam	adam is a substring of madam									
telescope less	less is not a substring of telescope									
101010 101	101 is a substring of 101010									

Submission guidelines:

1. Do not copy
2. You must submit two .c files (**q1.c** and **q2.c**) and one .pdf file (recursion simulation)
3. **Comment on each important line of code.** No marks will be given for uncommented codes.
4. **No marks will be given if your code does not compile properly.**