**Function Related Problems**

**(Total 20 questions)**

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| **SL** | **Problem statement** |
|  | Create a function **“GenNthPrime()”** to compute the **Nth** prime number**,** where **N** is an integer input taken from keyboard. Use infinite loop to repeat this until -1 is pressed.   |  |  | | --- | --- | | **Sample input** | **Sample output** | | 5 | 5th Prime: 11 | | 10 | 10th Prime: 29 | | 40 | 40th Prime: 173 | |
|  | 1. Create a function **find\_substr( )** that takes two string arrays (**a, b**)as parameters. 2. It returns 1 if string **b** is found anywhere in string **a**, or returns –1 if no match is found.   (Assuming, strlen(a)>strlen(b))   |  |  | | --- | --- | | **Sample input (a, b)** | **Sample output** | | madam adam | 1 | | telescope less | 0 | | 101010 101 | 1 | |
|  | 1. Create a function **find\_substr( )** that takes two string (**a, b**)as parameters. 2. It uses the function **str\_length()** to determine the lengths of the strings. 3. It then looks for the smaller string anywhere in the bigger string. 4. It returns 1 if the substring is found, or returns –1 if no match is found.   **[Restriction:** str\_length()cannot uses built-in strlen() library function]   |  |  | | --- | --- | | **Sample input (a, b)** | **Sample output** | | madam adam | 1 | | telescope less | 0 | | 101010 101 | 1 | |
|  | 1. In this program create a structure name “***distance***”. 2. Add only one member variable “length” of integer type. 3. In main function, declare two “***distance***” structures. Assign the value of their length variable. Then call an “***distance*** add(distance dist1, distance dist2)” function passing your two structures. 4. Create a function “distance add(distance dist1, distance dist2)”. The function will return a ***distance*** hich would have the length that is the summation of the lengths of the two distance variables passed. Display the length of the structure returned.  |  |  | | --- | --- | | **Sample length values (a, b)** | **Sample output** | | 10 20 | 30 | |