

C

Interview

Questions

#coding

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1. function to divide two numbers and do not forget to handle the case x/y and $y = 0$
2. C code to sort an array.
3. C code to search for a certain element in array.
4. write a function to write 1 or 0 to a certain bit in an integer number.
5. function takes un-sorted array contains numbers from 0 to 9. The function shall return true if all numbers exist and false if not.
6. C Function takes an array of integers and return number of prime numbers inside the array.
7. C Function to swap two integers.
8. C function to swap two pointers of integer and Draw the stack when i call the function.
9. C Function takes integer and returns the number of ones in the binary of this integer.
10. C Code to sort array and put the result in a new array.
11. C function to swap two variables using arithmetic operation.
12. C code to take input from button and toggle LED.
13. C Code to draw a certain shape.
14. C Code to count number of ones in the binary of an integer number.
15. C function to get the 5th root of a number.
16. Sorting C code
17. d. function to swap two numbers and explain what happens exactly in the memory.
18. function to add two unsigned char numbers.
19. C code to pass arguments by reference.
20. C function takes not sorted array contains numbers from 0 to 100. there is only one number repeated in the array, and shall return this
21. C Code to draw a certain shape using * character.
22. C Code to count number of ones inside the binary of int
23. C code to count number of one's in the binary of decimal number.
24. C code to swap two array
25. C Code to draw a certain shape.

26. C Code to check if a certain number is repeated in the array or not.
27. C Code to SWAP to arrays in reverse order.
28. C Function to swap two array
29. C function to check if string mirror or not
30. write a c code to swap two variables using addition and subtraction only.
31. Write a c function that sorts an array in descending order in a new array.
32. Write a c code to toggle a led using push button.
33. C code to swap two arrays.
34. C function to draw a certain shape.
35. C function to count number of zeros and ones in the binary of a number.
36. C function returns the maximum number in array.
37. C function returns the sum of two numbers.
38. C function to count number of zeros and ones in the binary of a number.
39. write a function that receives an array and removes Repeated elements.
40. Write a C function to check if the input is an even number or an odd number, if even number return 0 if odd number return 1.(best way).
41. 5) Write C Function that converts the any letter from lowercase to uppercase.
42. 6) Write a function which, given a string and check if any character is repeated.
43. 7) Write a C function to return the index of LAST occurrence of a number in a given array. Array index start from 0. If the item is not in the list return -1.
44. 8) Write a C function to get the nth term of the arithmetic series: 1, 3, 5, 7, 9,....
45. 9) Write a C function to get the nth term of Fibonacci series.

46. 10) Write a function which, given a string, converts all uppercase letters to lowercase, leaving the others unchanged.
47. Write a function to remove all characters in a string except alphabet.
48. Write a C function that takes two numbers and returns an array containing all numbers between the two given numbers. (numbers 2,6 -> return array containing [3,4,5]).
49. Write a C function that removes the repeated number of an input sorted array and returns a new array without the repeated numbers.
50. Write a C function to swap the two bytes of a short int (n=0xFE20 -> 0X20FE) using 2 methods.
51. Write a C function to know if the system is big endian or little.
52. Write a C function to count the longest consecutive occurrence of zeros between two ones in the binary representation of a given number. number -> 0b10001001000001001000000 result -> 5
53. C function to reverse an array.
54. C function to count number 1's in a binary 8-bits number.
55. C function to get the repeated number in an array containing 101 elements and the elements values from 1 to 100.
56. C Function to return the number of 1's and 0's in a binary 8-bits number.
57. C function to sort an array and there is an input variable to decide the way of sorting ascending or descending.
58. C Function to reverse array elements.
59. C function to count number 1's in a binary 8-bits number.
60. Draw X shape using *
61. Function to return the 5th root of an integer number.
62. C Function to return the number of 1's and 0's in a binary 8-bits number.
63. Write a function that receives an array and removes repeated elements.
64. Draw Pyramid shape using *
65. C function to sort an array of integers.

66. C function takes an array and if it finds a number x makes the previous elements in a separate array. and the function returns the new array.
67. C function to count the maximum number of consecutive one's in 8-bit binary number.
68. C. What do you know about pointers and its usage.
69. C function to get the duplicated number in an array.
70. Function to get the number of ZERO's and One's in the binary of a character variable.
71. C function returns the repeated number in the array.
72. Function to get the number of ZERO's and One's in the binary of a character variable.
73. C function to remove the duplicate number from the array.
74. C code to add two integer numbers.
75. Code to get the maximum repeated element in array.
76. C Code to print 2D Array.
77. C Code to Swap 4-bits with the other 4-bits in byte.
78. C Code to reverse the 8-bits in byte.
79. C Function to get the repeated element in array.
80. How to change data from Little to Big endians.
81. C Code to sort array and put the result in a new array.
82. C function to swap two variables using arithmetic operation.
83. C code to take input from button and toggle LED.
84. C Function takes an array of integers and return number of prime numbers inside the array.
85. C Function to swap two integers.
86. C function to swap two pointers of integer. and Draw the stack when i call the function.
87. C Function takes integer and return the number of ones in the binary of this integer.
88. C Function to swap two arrays with the same length.
89. C. How to detect stack overflow.

90. C function takes two arrays and swap them.
91. Write a Macro to set and clear bit.
92. C function to reverse an array.
93. C Code to Swap 4-bits with the other 4-bits in byte.
94. C Code to find a certain number in array.
95. C Function to return the number of 1's and 0's in a binary 8-bits number.
96. write a function that receives an array and removes Repeated elements.
97. Write a c code of index of occurrence of a number in a given array.
98. Write a c code to count the longest consecutive occurrence of a given number in an array.
99. C Code to get the maximum repeated element in array.a. C Function to swap two array with the same length.
100. C function to check if string mirror or not.
101. a. Write a C Function to swap elements of 2 arrays according to the smallest array in size.
102. Write a c code to copy the contents of 2 arrays into a third one in a zigzag order given that array sizes are not known ?
103. Write a C Function to swap elements of 2 arrays according to the smallest array in size.
104. Write a C function to sort an array with descending order.
105. Write a C function to return the sum of an array.
106. C function to count number of 1's in an integer binary.?
107. Write a to Function to swap elements of 2 arrays according to the smallest in size.
108. Write a c code to copy the contents of 2 arrays into a third one in a zigzag order given that array sizes is not known.
109. C Function to rotate the 8 bits binary of the integer.
110. Write a C function takes an array and remove the repeated number from it.
111. Write a C function to get the Max and Min numbers in the array.

- 112.** Write a C function to swap two integers with use temp variable.
- 113.** Write c function to take an integer number and calculate its square root.
- 114.** 2- Write c function to check Whether a Number is Prime or Not.
- 115.** 3- Write c function to take 2 numbers and print all prime numbers between them.
- 116.** Write c function to take a number and get the nearest 10th number (number 73 return 70 ,number 78 return 80).
- 117.** Write c function to take a number and sum all its digits (number 126 , sum = 1+2+6).
- 118.** Write c function to reverse digits in number (number 2371 return 1732).
- 119.** Write c function to check Whether the Number base is 2 or not (numbers like 1,2,4,8,16,32) try it in 4 different ways.
- 120.** Write c function to count number of ones in the binary representation of a number (10-> 1010 return 2) try to optimise your code
- 121.** Write c function to print the binary representation of a number try not to print zeros on the left (5-> 101).
- 122.** Write c function to take number of lines and draw pattern with '*' like
- 123.** (try to draw a circle).
- 124.** Write c function to sum numbers from 1 to 100 (without loop).
- 125.** Write c function to calculate the factorial of number (factorial of 5 is $5*4*3*2*1$) try in 2 different way.
- 126.** Write c function to find a number in a sorted array (try to optimise your code).
- 127.** C function to return the maximum and minimum number in an array and there index (try 3 different way to return more than one variable from function).

- 128.** Write c function to take 2 unsigned char and add them and return the result in unsigned char (where is the problem and how to solve it).
- 129.** Write c function to take an array and reverse its elements.
- 130.** Write c function to take 2 arrays and swap them (2 different size).
- 131.** Write c function to take an array (with unknown size) contain 2 zeros swap the 3 element after the first zero with the 3 element after the second zero (x,x,x,0,1,2,3,xxxx,0,5,6,7,xxxx ->swap 1,2,3 with 5,6,7).
- 132.** Write c function to take a string and return the longest word (My name is Mohamed Ali -> return Mohamed) .
- 133.** Write c function to take a string and reverse words (My name is Mohamed Ali->Ali Mohamed is name my) try it without use external arrays.
- 134.** Write c function to take an array and return the biggest difference between 2 numbers in the array (the smaller number must come first in the array) {10,1,5,3,6,8,7,2}->return 7 difference between 1,8.
- 135.** Write c function to count the max number of zeros between two ones in the binary representation of a number (296384->{1001000010111000000} return 4).
- 136.** Write c function to find the most repeated number in an array of char (size of the array is very large) try to optimise your code .
- 137.** Write c function to take 2 arrays and return an array by merging them like this (arr1={1,2,3,4,5},arr2={11,12,13,14,15} return arr3={1,11,2,12,3,13,4,14,5,15}).
- 138.** Write c function to reverse bits in a 8 bit number (149->10010101 return 169->10101001)
- 139.** How function can return 2 arguments with 4 different methods.
- 140.** C function to sort an array in descending order.
- 141.** C code to convert a variable from big to little endian .
- 142.** C function to return the multiplication and sum of two variables.
- 143.** C function to return the multiplication and sum of two variables.
- 144.** C function to count number of 1's in the binary of integer number.
- 145.** How to return array by value.

- 146.** how to return two values from c function.
- 147.** C function takes one number and is called by the application many times , returning the minimum number from the first call.
- 148.** C Function return the addition and multiplication of two char.
- 149.** C Function to SWAP two integer numbers without using the Temp variable.
- 150.** C Function to return the prime number start from ZERO to certain number.
- 151.** C Code to make led ON every button press.
- 152.** C Code to make led ON every button release.
- 153.** C function to count number of ZEROS in 32-bits number.
- 154.** C. Write a c function that takes u8 number and swap its 4 -bits.
- 155.** C Function to multiply two integers with using *
- 156.** Write a c code to count Number of 1's in an unsigned 32-bit integer.
- 157.** Write a c code to count Maximum Number of consecutive 0's between two 1's.
- 158.** Write a function that return the index of the odd element in the array given that the array contains even numbers except one odd number.
- 159.** How to count the size of the array if it is unknown.
- 160.** C function to Sort an Array.
- 161.** C code to print the binary of integer number.
- 162.** C function to print a prime numbers in a certain range.
- 163.** C function to SWAP two arrays with the same length.
- 164.** C function to SWAP two arrays with different length.
- Arr1: 1,2,3 Arr2: 4,5,6,7,8
- The output : Arr1: 4,5,6 Arr2: 1,2,3,7,8
- 165.** C function to merge two arrays in the third array
- input 1: 1,2,3 Input 2: 4,5,6,7 Output: 1,4,2,5,3,6,7
- 166.** C function to return the maximum number in array and its index.
- 167.** C function to count two 8bits numbers and return the result.
- 168.** Write C function to swap 3 digits cyclic.

For example, 235 will be 352

169. C function to count two 8bits numbers and return the result.
170. How to write Assembly code with C code in the same file.
171. C code to turn on the led if the switch is pressed.
172. Write a C Function to swap elements of 2 arrays according to the smallest array in size.
173. Write a c code to copy the contents of 2 arrays into a third one in a zigzag order given that array sizes are not known ?
174. C function to return the maximum number in array and its index.
175. C function to count two 8bits numbers and return the result.
176. C function two swap two pointers.
177. Write a c function to reverse a string.
178. Write c function to count number of 1's in 8bits binary number.
179. Write a c function to SWAP two integer numbers and another function to SWAP two points to integer.
180. Write a c code to know if the architecture is little or big endian.
181. Write a c code to count falling edge.
182. Write a c code to count rising edge.
183. Write a c code values between 8-bit unsigned integers in descending order inclusive
184. Check if a given number is a power of 3 and of 2.
185. Write a c code 4th bit.
186. Write Pointer to function and call function with pointer to function
187. code: write function to return sine of given angle
188. code: remove repeated values from array
189. You have an array of 100 element contain all number from 0 to 100 except one number ,write c function to find the missed number (try in $O(n)$).
190. You have an array of 101 element contain all number from 1 to 100 ,so one number is repeated ,write c function to find the repeated number (try in $O(n)$).
191. You have an array of integers all numbers in the array repeated 2 times except one number repeated one time only find this number (try $O(n)$). array like {1,2,4,66,2,,1,500,66,7,7,500}->4.
192. repeat but array is sorted (try less than $O(n)$).
193. array {1,1,2,2,4,4,70,70,73,80,80,81,81} ->73.

194. You have an array of integers contain Mono numbers only (from 0 to
195. write c function to find the most repeated number (try in $O(n)$).
196. Write c function to find the first repeated char in string (try in $O(n)$).
"ahmed selem" ->e.
197. Write c function to copy string to string without copy repeated
characters try ($O(n)$). "ahmed selem kamel"->"ahmed slk".
198. Write c function to reverse string "Ahmed salem"->"melas demhA".
199. Write c function to reverse words in sentence (without using external
arrays) " I work as an embedded software engineer for 3 years" -> "
years 3 for engineer software embedded an as work I".
200. Write c function to take 2 arrays of characters and check if they are
identical (try to optimise).
201. Write c function to check if string is mirror or not "SalaS", "SalelaS".
202. Write c function to remove Repeated elements in an array .
203. Write C function to take an array and if it finds a number "given"
makes the previous elements in a new array and returns it (try to
optimise)
204. Write C code to check if an int is a palindrome number or not (like
1243421)
205. Write C code to draw X pattern with stars '*'
206. Write C code to draw Z pattern with stars '*'
207. Write C code to draw triangle pattern with stars '*'
208. Write C code to draw char A pattern with stars '*'
209. Write C code to draw a diamond pattern with stars '*'
210. Write C code to reverse the digits of an integer number
211. Write C code to find the greatest common divisor (GCD) of 3
numbers
212. Write C code to check for the endianness of the system
213. Write C code to send 4-Byte integers from a big-endian machine
to little-endian machine via UART
214. Write C code to count the 1's in an integer number
215. Write C code to count the 0's in an integer number