Handout 3 C++ Programming Deadline is October 17

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1a. Write a function count chars that has the function head
      void count chars(char text[])
and that performs the following task:
count chars prints a table listing the number of occurrences of the individual
characters A to Z (capitalized as well as non-capitalized) in the argument text. The
argument text is assumed to be a C-string that is terminated using a NULL-character.
Example:
The program:
int main() {
      char text[] = "Today is a nice day for having a little picnic.";
      count chars(text);
      return 0;
} // end main
shall print:
A, a: 5
B, b: 0
C, c: 3
D, d: 2
E, e: 2
F, f: 1
G, g: 1
H, h: 1
I, i: 6
J, j : 0
K, k : 0
L, 1 : 2
M, m: 0
N, n: 3
0, o : 2
P, p: 1
Q, q: 0
R, r: 1
S, s: 1
T, t: 3
U, u : 0
v, v : 1
W, w: 0
X, x : 0
Y, y : 2
```

z, z : 0

1b. Modify/extend the function **count_chars** so that it additionally prints a bar diagram showing the occurrences of the characters A to Z. The height of each bar shall be equal to the number of occurrences of the corresponding character in the argument **text**.

For the above example, your output should look like:

