

Week -> 5

Date... 4/10/23...

Char Arrays & Strings

Quiz ->

① -> which const member & function doesn't modify string?

④ -> empty

=> assign, append, erase
modify str

② -> Output of code

① -> str

③ -> Output HelloWorld
 str[0]

① -> H

④ -> Output of Input -> "Hello World"

② -> Hello

③ -> output of code

char str1[6] = "Hello"

char str2[6] = "World"

char str3[12] = str1 + " " + str2;

① -> Error

No function
to hold char
array like that

④ -> Output

String s1 = "Hello"

String s2 = "World"

String s3 = s1 + " " + s2

① -> Hello World

APCO

Teacher's Sign.....

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(4) → Concatenating in String

(1) $s1 + s2$

(2) $s1.append(s2);$

(8) → Length of string object?

(5) → Both length & size

(9) → Output → "Hello world";

(3) → Hello

next line means break

(10) → Concatenating a character at the end of string?

(6) → both of them

↓
 $s = s + 'a'$

↓
 $s.push_back('a');$

(11) → Output $str = ("Samboundary @");$

$str.back() = '@';$

(7) → Samboundary!

remove this

(12) → Output → $str("Samboundary")$
 $str.substr(3).substr(4)$

(c) → dry.

(13) → $str[11] = "Hello";$
 $str2[10] = "world";$
 $str.cat(str2);$
 $str.len(str1)$

Hello world
0 1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19
10 + 0 + 1 = 10

(14) → 10

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(14) → Output

str = "microsoft"
reverse_iterator r;

i = str.rbegin(); r < str.rend()
cout << *r

(15) → if so xcin

(16) → everybody does like this

(17) →

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
s t e v e j o b i s l e g e n d

str.erase(str.begin() + 5, str.end() - 1)

str → (B) → steve legend

starting
ending position

(18) → How to append more than one character?

(19) → both append & operator +=

(20) → char p[20];

s[] = "string"; l = strlen(s); i =

for (i = 0; i < length)

p[i] = s[length - i];

(21) → No output printed i = 0

s[6 - 0] = 'o'

p[0] = 'o'

Now, it doesn't matter what comes in p[1], p[2] ... as p[0] will not change for i > 0. Nothing printed if we have first char as 'o'

(22) → "Hello Quiz"

Address of Quiz (B) → char + 5

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(25) \rightarrow char [20] = "Hello";
size \rightarrow 20 (B)

(26) \rightarrow char s1[50], s2[50];
strcpy(s1, "code");
strcpy(s2, "help");
strcat(s1, s2) \rightarrow (B) codehelp

(27) \rightarrow (A) Remove all occurrence of a char (c)
 $i=0, j=0$
while (ch[i] != '\0')
if (ch[i] == c)
ch[j] = ch[i];
 $j++$
 $i++$
ch[j] = '\0';

(28) \rightarrow (A) \rightarrow Return element with highest freq
 $c=0$, char c;
if ($i=0$ to $ch[i] \neq 0, i++$)
sum = 0
for ($j=0$ to $ch[j] \neq 0, j++$)
if ($ch[i] == ch[j]$)
 $s = s + 1$
if ($s > c$)
 $c = s$
 $c = input[i]$
Return c

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29 → ⁶⁶ q q y y ¹¹ → Palindrome

30 → NO

30 → 30 → Replace c1 with c2

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for (i = 0 to 610) of
  if (ch[i] = c1)
    ch[i] = c2
  }
```