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Started on	Saturday, 8 May 2021, 11:00 AM
State	Finished
Completed on	Saturday, 8 May 2021, 11:30 AM
Time taken	29 mins 58 secs
Grade	**92.50** out of 100.00

Question 1

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
char months[4][10] = {"february", "april", "june", "september"};
char *arr[4];
int i;
char *temp;
for(i = 0; i < 4; i++)
    arr[i] = months[i];
if (strcmp(arr[0],arr[1]) > 0)
{
    temp = arr[0];
    arr[0] = arr[1];
    arr[1] = temp;
}
if (strcmp(arr[2],arr[3]) > 0)
{
    temp = arr[2];
    arr[2] = arr[3];
    arr[3] = temp;
}
for(i = 0; i < 4; i++)
    printf("%s ",arr[i]);
```

Select one:
- a. february april september june
- ● b. april february june september ✔
- c. february april june september
- d. april february september june

The correct answer is: april february june september

Question **2**

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
int f()
{
    static int x;
    x++;
    printf("%d ",x);
}

int g()
{
    int x = 0;
    x++;
    printf("%d ",x);
}

int main()
{
    f();
    g();
    f();
    g();

    return 0;
}
```

Select one:

○ a. 0 0 1 0

○ b. 0 0 0 0

◉ c. 1 1 2 1 ✔

○ d. 1 1 1 1

The correct answer is: 1 1 2 1

Question **3**

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
int a[10];
int *b = &a[2], *c = &a[5];
int dif = c - b;
printf("%d", dif);
```

Select one:

○ a. 5

○ b. 8

○ c. 6

◉ d. 3 ✔

The correct answer is: 3

Question **4**

Correct

Mark 5.00 out of
5.00

Which of the following program segments produces the following output?

12 21

Select one:

○ a. The code given below:

```
int i = 12, j;
int *p, *p1;
p = &i;
p1 = &j;
j = 21;
printf ("%d %d", p, p1);
```

◉ b. The code given below:

```
int i = 12, j = 21;
int *p, *p1;
p = &i;                              ✔
p1 = &j;
printf("%d %d", *p, *p1);
```

○ c. The code given below:

```
int i = 12, j;
int *p, *p1;
p = i;
p1 = j;
j = 21;
printf ("%d %d", *p, *p1);
```

○ d. The code given below:

```
int i = 12, j = 21;
int p, p1;
p = &i;
p1 = &j;
printf ("%d %d", *p, *p1);
```

The correct answer is: The code given below:

```
int i = 12, j = 21;
int *p, *p1;
p = &i;
p1 = &j;
printf("%d %d", *p, *p1);
```

Question **5**

Correct

Mark 5.00 out of
5.00

What is the output of the program segment given below?

```
char name[25] = "CMPE252";
char day[25] = "WEDNESDAY";
strncat(name,day+6,6);
printf("%s",name);
```

Select one:

◉ a. CMPE252DAY ✔

○ b. CMPE252WEDNESDAY

○ c. WEDNESDAY2

○ d. CMPE252WEDNES

○ e. CMPE252NESDAY

The correct answer is: CMPE252DAY

Question 6

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
char str1[] = "CMPEStudents", str2[] = "Hello";
printf("%s",str1+strlen(str2));
```

Select one:

○ a. CMPES

◉ b. tudents ✔

○ c. CMPEStudentsHello

○ d. Students

The correct answer is: tudents

Question 7

Correct

Mark 7.50 out of 7.50

What is the output of the program segment given below?

```c
char chr[30];
char *str = "newstring";
int length = strlen(str);
int a;
for (a = 0; a < length; a++)
    chr[a] = str[length - a];
printf("%s",chr);
```

Select one:

○ a. g

○ b. n

○ c. newstring newstring

○ d. newstring

◉ e.
(Nothing will be printed on the display.) ✔

The correct answer is:
(Nothing will be printed on the display.)

Question 8

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
char days[30] = "mon-day,tues-day,wednes-day";
char *ptr1, *ptr2, *ptr3;
ptr1 = strtok(days,",-");
ptr2 = strtok(NULL,",-");
ptr3 = strtok(NULL,",-");
printf("%s%d%s",ptr1,strlen(ptr2),ptr3);
```

Select one:

○ a. mon8day

○ b. mon-4tues-

○ c. mon3tues-day

○ d. mon-day8wednes-day

◉ e. mon3tues ✔

The correct answer is: mon3tues

Question **9**

Incorrect

Mark 0.00 out of 2.50

The condition str1 < str2 is true if the string value of str1 alphabetically precedes the string value of str2.

Select one:

◉ True ✖

○ False

The correct answer is 'False'.

Question 10

Correct

Mark 5.00 out of 5.00

Which of the followings DOES NOT involve an invalid memory access?

Select one:

○ a. The code given below:

```c
int main()
{
    int *p = (int *) malloc(3*sizeof(int));

    if (p == NULL)
    {
        return 1;
    }

    *p = 10;
    *(p+1) = 20;
    *(p+2) = 30;

    free(p);

    for (int i = 0; i < 3; i++)
        printf("%d ",p[i]);

    return 0;
}
```

○ b. The code given below:

```c
int main()
{
    int *p = (int *) malloc(3*sizeof(int));

    if (p == NULL)
    {
        return 1;
    }

    *p = 10;
    *(p+1) = 20;
    *(p+2) = 30;

    p = (int *) realloc(p, 2*sizeof(int));

    for (int i = 0; i < 3; i++)
        printf("%d ",p[i]);

    free(p);

    return 0;
}
```

c. The code given below:

```c
int main()
{
    int *p = (int *) malloc(3*sizeof(int));

    if (p == NULL)
    {
        return 1;
    }

    *p = 10;
    *(p+1) = 20;
    *(p+2) = 30;
    *(p+3) = 40;

    free(p);

    return 0;
}
```

d. The code given below:

```c
int main()
{
    int *p = (int *) malloc(3*sizeof(int));

    if (p == NULL)
    {
        return 1;
    }

    *p = 10;
    *(p+1) = 20;
    *(p+2) = 30;

    p = (int *) realloc(p, 4*sizeof(int));

    for (int i = 0; i < 3; i++)
        printf("%d ",p[i]);

    free(p);

    return 0;
}
```

✔

The correct answer is: The code given below:

```c
int main()
{
    int *p = (int *) malloc(3*sizeof(int));

    if (p == NULL)
    {
        return 1;
    }

    *p = 10;
    *(p+1) = 20;
    *(p+2) = 30;

    p = (int *) realloc(p, 4*sizeof(int));

    for (int i = 0; i < 3; i++)
        printf("%d ",p[i]);

    free(p);

    return 0;
}
```

Question 11

Correct

Mark 2.50 out of 2.50

The assignment operator = can be used for string assignment only when initializing a string variable in its declaration.

Select one:

○ True ✔

○ False

The correct answer is 'True'.

Question 12

Correct

Mark 6.00 out of 6.00

What is the output of the program segment given below?

```c
char str[] = "Cmpe252";
int sum = 0;
for (int i = 0; i < strlen(str); i++)
{
    if (isalpha(str[i]))
    {
        if (isupper(str[i]))
            sum += 10;
        else
            sum += 100;
    }
    if (isdigit(str[i]))
        sum += 1000;
}
printf("%d",sum);
```

Answer: 3310 ✔

The correct answer is: 3310

Question 13

Correct

Mark 5.00 out of 5.00

Which one combines the two given statements into one?

```
char *ptr;
ptr = (char*) malloc(23);
```

Select one:

- ○ a. char ptr = (char*) malloc(23);
- ○ b. char *ptr = (char) malloc(23);
- ○ c. (char) ptr = char*malloc(23);
- ◉ d. char *ptr = (char*) malloc(23); ✔
- ○ e. *ptr = (char*) malloc(23);

The correct answer is: char *ptr = (char*) malloc(23);

Question 14

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below? (Note that size of char is 1 byte.)

```
char str[30] = "CMPE252";
printf("%d%d", strlen(str), sizeof(str));
```

Answer: 730   ✔

The correct answer is: 730

Question 15

Incorrect

Mark 0.00 out of 5.00

What is the output of the program segment given below?

```
char str[10];
int x;
double y;
sscanf("  7.8  cmpe252  345  ", "%lf%s%d", &y, str, &x);
printf("%.2f %s %d", y, str, x);
```

Select one:

- ○ a. None of these
- ○ b. 7.80 cmpe252 345
- ○ c. 7.00 . 80
- ◉ d. 7.80 cmpe 252 ✘

The correct answer is: 7.80 cmpe252 345

Question 16

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```
char name[25] = "CMPE252";
char day[25] = "WEDNESDAY";
strncpy(day,name+4,3);
printf("%s",day);
```

Select one:

- ○ a. WEDN252AY
- ○ b. CMPEWED
- ◉ c. 252NESDAY ✔
- ○ d. CMPE252WED
- ○ e. WEDNESDAY252

The correct answer is: 252NESDAY

Question 17

Correct

Mark 2.50 out of 2.50

If the two strings are identical, then strcmp() function will return

Select one:

○ a. None of these

◉ b. 0 ✔

○ c. 1

○ d. -1

The correct answer is: 0

Question 18

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
char str[30] = "helloworld";

memmove(str+7, str+5, 6*sizeof(char));

printf("%s", str);
```

Select one:

◉ a. hellowoworld ✔

○ b. hellowowor

○ c. hellorld

○ d. helloworld

The correct answer is: hellowoworld

Question 19

Correct

Mark 9.00 out of 9.00

What is the output of the program segment given below?

```c
int a, b;
for (a = 2; a < 30; a++)
{
    for (b = 2; b <= (a/b); b++)
        if (!(a%b))
            break;
    if (b > (a/b))
        printf ("%d ", a);
}
```

Select one:

○ a. 1 5 7 11 15 21 27

◉ b. 2 3 5 7 11 13 17 19 23 29 ✔

○ c. 2 3 7 13 17 19 27

○ d. 2 5 7 9 15 17 19 23 29

The correct answer is: 2 3 5 7 11 13 17 19 23 29

Question 20

Correct

Mark 5.00 out of 5.00

What is the output of the program segment given below?

```c
int a[5] = {1,2,3,4,5};
int b[5] = {10,20,30,40,50};

memcpy(a,b,3*sizeof(int));

for (int i = 0; i < 5; i++)
    printf("%d ", a[i]);
```

Select one:

○ a. 1 2 3 40 50

◉ b. 10 20 30 4 5 ✔

○ c. 1 2 3 4 5

○ d. None of these

○ e. 10 20 30 40 50

The correct answer is: 10 20 30 4 5

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