Part 6(macros)  https://www.facebook.com/groups/embedded.system.KS	39 ?
Email *  abdallah.shabaan.ghazy@gmail.com	
✓ Q32)Macros have a local scope. *	1/1
<ul><li>True</li><li>False</li></ul>	<b>✓</b>

```
✓ Q25) *
                                                                                1/1
Point out the error in the program
 #include<stdio.h>
 #define SI(p, n, r) float si; si=p*n*r/100;
 int main()
     float p=2500, r=3.5;
     int n=3;
     SI(p, n, r);
     SI(1500, 2, 2.5);
     return 0;
     A. 26250.00 7500.00
    B. Nothing will print
    C. Error: Multiple declaration of si
    D. Garbage values
✓ Q30)There exists a way to prevent the same file from getting #included
                                                                               *1/1
    twice in the same program.
     True
     False
```

```
✓ Q11) *
                                                       1/1
Output?
# include <stdio.h>
# define scanf "%s Geeks Quiz "
int main ()
   printf(scanf, scanf);
   return 0;
}
  Compiler Error
  %s Geeks Quiz
   Geeks Quiz
4) %s Geeks Quiz Geeks Quiz
   1
```

```
✓ Q13) *
                                                                1/1
Output?
#include<stdio.h>
#define f(g,g2) g##g2
int main()
   int var12 = 100;
   printf("%d", f(var,12));
   return 0;
1
1) 100
2) CompilerError
3) 0
    3
```

!

× Q2)*	0/1
Macros aid in	
PICK ONE OF THE CHOICES	
overloading	
improving speed	
O Porting	
All of the answers	
A	×
<ul><li>○ B</li><li>○ C</li><li>○ D</li></ul>	×
Correct answer	
● D	
✓ Q34)In a macro call the control is passed to the macro. *	1/1
True	
False	<b>✓</b>

✓ Q26) \*

Point out the error in the program

```
#include<stdio.h>
int main()
{
   int i;
   #if A
      printf("Enter any number:");
      scanf("%d", &i);
   #elif B
      printf("The number is odd");
   return 0;
}
```

- A. Error: unexpected end of file because there is no matching #endif
- B. The number is odd
- C. Garbage values
- D. None of above

```
✓ Q16) *
                                                         1/1
      #define message "union is\
power of c"
void main() {
   printf("%s", message);
(a) union is power of c
(b) union ispower of c
(c) union is
Power of c
(d) Compiler error
(e) None of these
```

```
✓ Q21) *
                                                                                  1/1
What will be the output of the program?
 #include<stdio.h>
 #define FUN(arg) do\
                   13
                      if(arg)\
                          printf("IndiaBIX...", "\n");\
                    }while(--i)
 int main()
     int i=2;
     FUN (i<3);
     return 0;
     A. IndiaBIX...IndiaBIX...IndiaBIX
     B. IndiaBIX... IndiaBIX...
     C. Error: cannot use control instructions in macro
     D. No output
✓ Q35)The preprocessor can trap simple errors like missing declarations,
                                                                                *1/1
     nested comments or mismatch of braces.
     True
    False
```

!

Q29) Preprocessor directive #undef can be used only on a macro been #define earlier	that has *1/1
<ul><li>True</li><li>False</li></ul>	<b>~</b>
✓ Q20) *	1/1
<pre>What will be the output of the program?  #include<stdio.h> #define CUBE(x) (x*x*x)  int main() {    int a, b=3;    a = CUBE(b++);    printf("%d, %d\n", a, b);    return 0; }</stdio.h></pre>	
<ul> <li>A. 9, 4</li> <li>B. 27, 4</li> <li>C. 27, 6</li> <li>D. Error</li> </ul>	<b>✓</b>
✓ Q31)Macro calls and function calls work exactly similarly *	1/1
<ul><li>True</li><li>False</li></ul>	<b>✓</b>

```
V Q36)*

Will the program compile successfully?

#include<stdio.h>
#define X (4+Y)
#define Y (X+3)

int main()
{
   printf("%d\n", 4*X+2);
   return 0;
}

O yes

No
No
```

```
✓ Q19) *
```

What will be the output of the program?

```
#include<stdio.h>
#define SQUARE(x) x*x

int main()
{
    float s=10, u=30, t=2, a;
    a = 2*(s-u*t)/SQUARE(t);
    printf("Result = %f", a);
    return 0;
}
```

- A. Result = -100.000000
- B. Result = -25.000000
- C. Result = 0.000000
- D. Result = 100.000000

:

```
× Q12) *
                                                                        0/1
 #include <stdio.h>
 #define a 10
 int main()
    printf("%d",a);
    #define a 50
    printf ("%d ",a);
    return 0;
     Compiler Error
 2)
     10 50
     50 50
      10 10
                                                                       X
    2
Correct answer
  Feedback
  Preprocessor doesn't give any error if we redefine a preprocessor directive. It may give
  warning though. Preprocessor takes the
  most recent value before use of and put it in place of a.
```

https://docs.google.com/forms/d/e/1FAlpQLScY5auFwklIFn9qkvB\_SajVZD-G1KZdAFtst7PhgEyxyEmw9Q/viewscore?pli=1&pli=1&viewscore=AE0z...

```
#include<stdio.h>
#define MIN(x, y) (x<y)? x : y;
int main()
{
   int x=3, y=4, z;
   z = MIN(x+y/2, y-1);
   if(z > 0)
      printf("%d\n", z);
   return 0;
}

A.3

B.4

C.0

D. No output
```

```
X Q6) *
                                                                                  0/1
#include <stdio.h>
#if X == 3
     #define Y 3
#else
     #define Y 5
#endif
int main()
     return 0;
What is the output of the above program?
2) 5
3) 3 or 5 depending on value of X
4) Compile time error
                                                                                 X
Correct answer
    2
  Feedback
  In the first look, the output seems to be compile-time error because macro X has not been
  defined. In C, if a macro is not defined,
  the pre-processor assigns 0 to it by default. Hence, the control goes to the conditional else
  part and 5 is printed. See the next
  question for better understanding.
```

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× Q27) *	0/1
Which of the following are correctly formed #define statements in C?	
[A]. #define CUBE (X) (X*X*X);	
[B]. #define CUBE(x) (X*X*X)	
[C]. #define CUBE(X)(X*X*X)	
[D]. #define CUBE(X) {X*X*X}	
○ A	
B	X
○ c	
O D	
Correct answer	
Feedback	
A and be will not work because option a has semicolon and preprocessor doesn't have semicolon.	
In option b the x is a lowercase argument and used as uppercase.	

✓ Q3) *	1/1
The #ifdef and #endif are used to	
PICK ONE OF THE CHOICES	
O define macros	
remove code during pre-processing time	
specify compiler and linker options	
○ A	
B	<b>✓</b>

```
#include <stdio.h>
#define get(s) #s

int main()
{
    char str[] = get(GeeksQuiz);
    printf("%s", str);
    return 0;
}

Compiler Error

#GeeksQuiz

GeeksQuiz

GeeksQuiz

GeeksQuiz
```

	· , , , , , , , , , , , , , , , , , , ,	
✓ Q15)	*	1/1
	What will be output if you will compile and execute the following c code?	
	main(){ tf("%s",DATE);	
(b) Cu (c) nul (d) Co	orrent system date orrent system date with time ompiler error one of these	
a		<b>✓</b>
В		
O C		
O D		
O e		

```
✓ Q24) *
                                                                              1/1
What will be the output of the program?
 #include<stdio.h>
 #define MAX(a, b, c) (a>b ? a>c ? a : c: b>c ? b : c)
 int main()
     int x;
     x = MAX(3+2, 2+7, 3+7);
     printf("%d\n", x);
     return 0;
    A. 5
     B. 9
    C. 10
    D. 3+7
   Q33)Macros with arguments are allowed *
                                                                              1/1
    True
    False
```

```
✓ Q5) *
                                                                1/1
#include <stdio.h>
#define PRINT(i, limit) do \
                               if (i++ < limit) \
                                   printf("GeeksQuiz\n"); \
                                   continue; \
                           }while(1)
int main()
    PRINT(0, 3);
    return 0;
How many times GeeksQuiz is printed in the above program?
compile time-error
```

:

	T art o(masioo)	
<b>✓</b>	Q14) *	1/1
	nich file is generated after pre-processing of a C program?	
1)	.p	
2)	.i	
3)	.0	
4)	.m	
0	1	
	2	<b>✓</b>
0	3	
0	4	

```
✓ Q18) *
                                                                               1/1
What will be the output of the program?
 #include<stdio.h>
 #define MAN(x, y) ((x)>(y)) ? (x):(y);
 int main()
     int i=10, j=5, k=0;
     k = MAN(++i, j++);
     printf("%d, %d, %d\n", i, j, k);
     return 0;
A. 12, 6, 12
     B. 11, 5, 11
     C. 11, 5, Garbage
     D. 12, 6, Garbage
```

```
✓ Q10) *
                                                                1/1
#include <stdio.h>
#define square(x) x*x
int main()
  int x;
  x = 36/square(6);
  printf("%d", x);
  return 0;
}
1)
2)
   Compiler Error
```

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```
X Q9)*
                                                                              0/1
  #include <stdio.h>
  \#define\ ISEQUAL(X, Y)\ X == Y
  int main()
        #if ISEQUAL(X, 0)
             printf("Geeks");
        #else
             printf("Quiz");
        #endif
        return 0;
  }
  Output of the above program?
  1) Geeks
  2) Quiz
      Any of Geeks or Quiz
  4) Compile time error
    2
                                                                              X
Correct answer
  Feedback
  The conditional macro #if ISEQUAL(X, 0) is expanded to #if X == 0. After the pre-
  processing is over, all the undefined macros are
  initialized with default value 0. Since macro X has not been defined, it is initialized with 0.
  So, Geeks is printed.
```

B

```
Q40)Write a program without main function *

#include <stdio.h>

void my_constructor(void) __attribute__((constructor));

void my_constructor(void) {
    printf("This code runs before main.\n");
}

int main(void) {
    printf("This is the main function.\n");
    return 0;
}

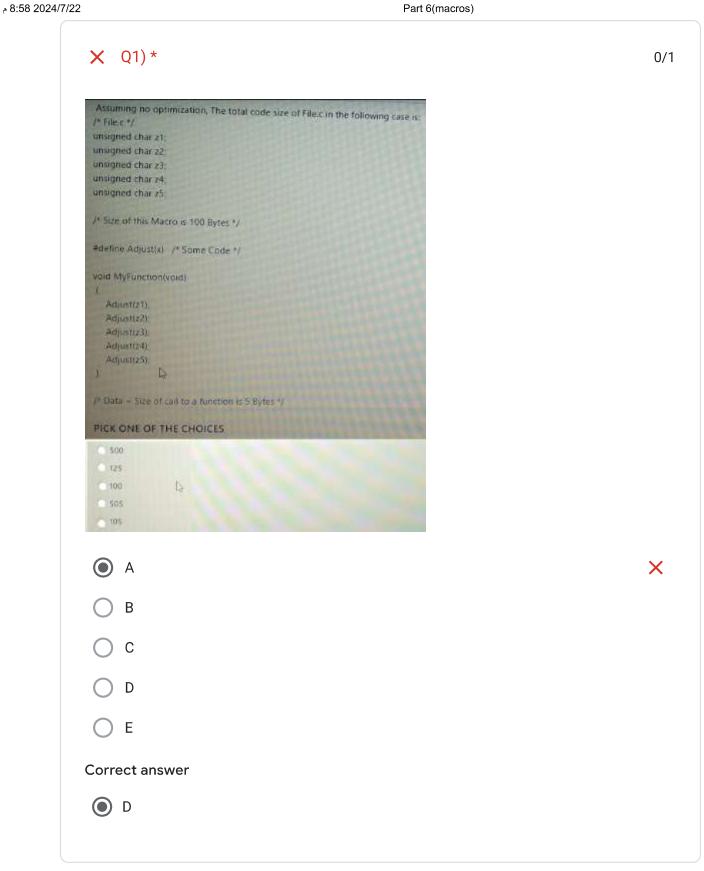
Feedback

#define fanc main
    void fanc ()
    {
        printf("hello");
    }
```

```
✓ Q7) *
                                                                       1/1
What is the output of following program?
#include <stdio.h>
#define macro(n, a, i, m) m##a##i##n
#define MAIN macro(n, a, i, m)
int MAIN()
    printf("GeeksQuiz");
    return 0;
}
1) Compiler Error
2) Geeks Quiz
3) MAIN
4) main
    1
```

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✓ Q39)\*
Suppose someone writes increment macro (i.e. which increments the value by one) in following ways:
#define INC1(a) ((a)+1)
#define INC2 (a) ((a)+1)
#define INC3(a) ((a) + 1)
#define INC4 (a) ((a) + 1)
Only INC1 is correct.
All (i.e. INC1, INC2, INC3 and INC4) are correct.
Only INC1 and INC3 are correct.
Only INC1 and INC2 are correct.

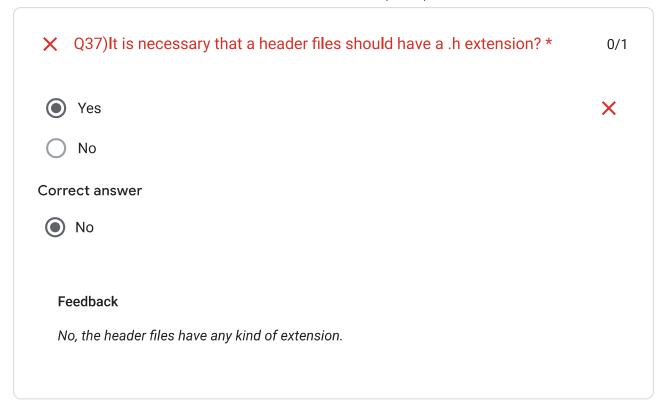


```
× Q8) *
                                                                                     0/1
#include <stdio.h>
#define X 3
#if !X
     printf("Geeks");
#else
     printf("Quiz");
#endif
int main()
           return 0;
   Geeks
    Quiz
    Compiler Error
    Runtime Error
     1
                                                                                    X
Correct answer
 ( ) 3
  Feedback
  A program is converted to executable using following steps 1) Preprocessing 2) C code to
  object code conversion 3) Linking The
  first step processes macros. So the code is converted to following after the preprocessing
  printf("Quiz")
  int main()
  return 0;
  The above code produces error because printf() is called outside main.
```

1
/-

✓ Q4) *	1/1
The #pragma is used to	
PICK ONE OF THE CHOICES	
define macros	
remove code during pre-processing time	
specify compiler and linker options	
○ A	
ОВ	

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