

Quiz 7 - Structures Union

Total points 70/125 ?

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Section score 70/125

now many bytes in memory taken by the following C structure:

```
#include <stdio.h>
struct test
{
    int k;
    char c;
};
```

- a) Multiple of integer size
- b) integer size+character size
- c) Depends on the platform
- d) Multiple of word size

☐ A

☒ B



☐ C

☐ D

Correct answer

☒ A

Assume **sizeof** an integer and a pointer is 4 byte. Output?

```
#include <stdio.h>
```

```
#define R 10
```

```
#define C 20
```

```
int main()
```

```
{
```

```
    int (*p)[R][C];
```

```
    printf("%d", sizeof(*p));
```

```
    getchar();
```

```
    return 0;
```

```
}
```

A) 200

B) 4

C) 800

D) 80

☐ A

☐ B

☒ C



☐ D

'ptrdata' is a pointer to a data type. The expression `*ptrdata++` is evaluated as (in C++) :

- A) `*(ptrdata++)`
- B) `(*ptrdata)++`
- C) `*(ptrdata)++`
- D) None of the above

☐ A

☒ B

✗

☐ C

☐ D

Correct answer

☒ A

✓ *

5/5

What would be the size of the following union declaration? (Assuming size of `double` = 8, size of `int` = 4, size of `char` = 1)

```
#include <stdio.h>
union uTemp
{
    double a;
    int b[10];
    char c;
}u;

a) 4
b) 8
c) 40
d) 80
```

☐ A

☐ B

☒ C

✓

☐ D

✗ *

0/5

What will be the output of the following C code?

```
#include <stdio.h>
union p
{
    int x;
    char y;
};
int main()
{
    union p p, b;
    p.y = 60;
    b.x = 12;
    printf("%d\n", p.y);
}
```

- a) Compile time error
- b) Depends on the compiler
- c) 60
- d) Undefined behaviour

☒ A

×

☐ B

☐ C

☐ D

Correct answer

☒ C

The size of a **union** is determined by the size of the _____

- a) First member in the **union**
- b) Last member in the **union**
- c) Biggest member in the **union**
- d) Sum of the sizes of all members

☐ A

☐ B

☒ C



☐ D



5/5

What type of data is holded by variable u **int** in the following C code?

```
#include <stdio.h>
union u_tag
{
    int ival;
    float fval;
    char *sval;
} u;
```

- a) Will be large enough to hold the largest of the three types;
- b) Will be large enough to hold the smallest of the three types;
- c) Will be large enough to hold the all of the three types;
- d) None of the mentioned

☒ A



☐ B

☐ C

☐ D



0/5

What will be the output of the following C code?

```
#include <stdio.h>
struct point
{
    int x;
    int y;
};
void foo(struct point*);
int main()
{
    struct point p1[] = {1, 2, 3, 4};
    foo(p1);
}
void foo(struct point p[])
{
    printf("%d\n", p[1].x);
}
```

- a) Compile time error
- b) 3
- c) 2
- d) 1

☒ A

×

☐ B

☐ C

☐ D

Correct answer

☒ B

Members of a **union** are accessed as _____

- a) **union**-name.member
- b) **union**-pointer->member
- c) both **union**-name.member & **union**-pointer->member
- d) none of the mentioned

☐ A

☐ B

☒ C



☐ D

What will be the output of the C program?

```
#include<stdio.h>
int main()
{
    struct str;
    {
        int s1;
        char st[30];
    };

    struct str s[] = { {1, "struct1"}, {2, "struct2"}, {3, "struct3"} };
    printf("%d %s", s[2].s1, (*(s+2)).st);
}
```

- A. Compilation Error
- B. 1 struct1
- C. 2 struct2
- D. 3 struct3

☐ A

☐ B

☐ C

☒ D

×

Correct answer

☒ A

```
include <stdio.h>
int f(int x, int *py, int **ppz)
{
    int y, z;
    **ppz += 1;
    z = **ppz;
    *py += 2;
    y = *py;
    x += 3;
    return x + y + z;
}

void main()
{
    int c, *b, **a;
    c = 4;
    b = &c;
    a = &b;
    printf( "%d", f(c,b,a));
    getchar();
}
```

Run on IDE

- A) 18
- B) 19
- C) 21
- D) 22

☐ A

☐ B

☐ C

☒ D

×

Correct answer

☒ B





Assume that the size of `int` is 4.

```
#include <stdio.h>
void f(char**);
int main()
{
    char *argv[] = { "ab", "cd", "ef", "gh", "ij", "kl" };
    f(argv);
    return 0;
}
void f(char **p)
{
    char *t;
    t = (p += sizeof(int))[-1];
    printf("%sn", t);
}
```

Run on IDE

- A) ab
- B) cd
- C) ef
- D) gh

☐ A

☐ B

☐ C

☒ D



Which member of the `union` will be active after REF LINE in the following C code?

```
#include <stdio.h>
union temp
{
    int a;
    float b;
    char c;
};
union temp s = {1,2.5,'A'}; //REF LINE
```

- a) a
- b) b
- c) c
- d) Such declaration are illegal

☐ A

☐ B

☐ C

☒ D



Correct answer

☒ A

which of the following structure declaration will **throw** an error?

- a)
`struct temp{}s;`
`main(){}`
- b)
`struct temp{};`
`struct temp s;`
`main(){}`
- c)
`struct temp s;`
`struct temp{};`
`main(){}`
- d) None of the mentioned

☐ A

☐ B

☒ C

×

☐ D

Correct answer

☒ D

```
#include <stdio.h>
```

```
char *c[] = {"GeksQuiz", "MCQ", "TEST", "QUIZ"};
```

```
char **cp[] = {c+3, c+2, c+1, c};
```

```
char ***cpp = cp;
```

```
int main()
```

```
{
```

```
    printf("%s ", **++cpp);
```

```
    printf("%s ", *--*++cpp+3);
```

```
    printf("%s ", *cpp[-2]+3);
```

```
    printf("%s ", cpp[-1][-1]+1);
```

```
    return 0;
```

```
}
```

A) TEST sQuiz Z CQ

B) MCQ Quiz Z CQ

C) TEST Quiz Z CQ

D) GarbageValue sQuiz Z CQ

☐ A

☒ B

×

☐ C

☐ D

Correct answer

☒ A

What is the output of **this** C code?

```
#include <stdio.h>
struct student
{
    char *name;
};
void main()
{
    struct student s, m;
    s.name = "st";
    m = s;
    printf("%s%s", s.name, m.name);
}
```

- a) Compile time error
- b) Nothing
- c) Junk values
- d) st st

☐ A

☐ B

☐ C

☒ D



Which **operator** connects the structure name to its member name?

- a) -
- b) <-
- c) .
- d) Both <- and .

☐ A

☐ B

☒ C



☐ D

Roll Number *

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0/5

What will be the output of the following C code?

```
#include <stdio.h>
struct
{
    int k;
    char c;
};
int main()
{
    struct p;
    p.k = 10;
    printf("%d\n", p.k);
}
```

- a) Compile time error
- b) 10
- c) Undefined behaviour
- d) Segmentation fault

☐ A

☒ B

×

☐ C

☐ D

Correct answer

☒ A

What will be the output of the following C code?

```
#include <stdio.h>
struct temp
{
    int a;
} s;
void func(struct temp s)
{
    s.a = 10;
    printf("%d\t", s.a);
}
main()
{
    func(s);
    printf("%d\t", s.a);
}
```

- a) 10 (Garbage Value)
- b) 0 10
- c) 10 0
- d) (Garbage Value) 10

☒ A

×

☐ B

☐ C

☐ D

Correct answer

☒ C

What will be the output of the following C code?

```
#include <stdio.h>
void main()
{
    struct student
    {
        int no;
        char name[20];
    };
    struct student s;
    s.no = 8;
    printf("%d", s.no);
}
```

- a) Nothing
- b) Compile time error
- c) Junk
- d) 8

☐ A

☐ B

☐ C

☒ D



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What will be the output of the following C code (Assuming size of `int` and `float` is 4)?

```
#include <stdio.h>
union
{
    int ival;
    float fval;
} u;
void main()
{
    printf("%d", sizeof(u));
}
```

a) 16
b) 8
c) 4
d) 32

☐ A

☐ B

☒ C



☐ D

Accept the pledge and sign your name. "I affirm that I will not give or receive any unauthorized help on this exam, and that all work will be my own." Signature [Write your name Below] *

M Maheeth Reddy

What will be the output of the following C code?

```
#include <stdio.h>
union stu
{
    int ival;
    float fval;
};
void main()
{
    union stu r;
    r.ival = 5;
    printf("%d", r.ival);
}
```

- a) 9
- b) Compile time error
- c) 16
- d) 5

☐ A

☐ B

☐ C

☒ D



What will be the output of the C program?

```
#include<stdio.h>
int main()
{
    struct zoho
    {
        int employees;
        char comp[5];

        struct founder
        {
            char ceo[10];
        }p;
    };
    struct zoho zs = {4000, "zoho", "sridhar"};
    printf("%d %s %s", zs.comp, zs.employees, zs.p.ceo);
    return 0;
}
```

- A. zoho garbage value garbage value
- B. zoho garbage value sridhar
- C. zoho 4000 sridhar
- D. zoho 4000 zoho

☐ A

☒ B



☐ C

☐ D

What will be the output of the following C code?

```
#include <stdio.h>
struct student
{
    char *name;
};
struct student s;
struct student fun(void)
{
    s.name = "newton";
    printf("%s\n", s.name);
    s.name = "alan";
    return s;
}
void main()
{
    struct student m = fun();
    printf("%s\n", m.name);
    m.name = "turing";
    printf("%s\n", s.name);
}
```

- a) newton alan alan
- b) alan newton alan
- c) alan alan newton
- d) compile time error

☒ A



☐ B

☐ C

☐ D

What will be the output of the following C code?

```
#include <stdio.h>
struct student
{
    int no;
    char name[20];
}
void main()
{
    struct student s;
    s.no = 8;
    printf("hello");
}
```

- a) Compile time error
- b) Nothing
- c) hello
- d) Varies

☒ A



☐ B

☐ C

☐ D

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