```
Use Define Data Type
1.
#include<stdio.h>
struct s1{
    char a[4];
    char *p;
}o = {"DAC", "DMC"};
int main(void)
    o.p = o.a+1;
    printf("%c %s\n",*o.p,o.a);
    return 0:
A. M DAC
B. A DAC
C. A DMC
D. M DMC
Answer: B
2. Consider 32 bit compilation.
#include<stdio.h>
struct s2 {
    char *cp;
    struct s1{
        char a[4];
        char *p;
    }01;
}o2:
int main(void)
{
    printf("%d %d %d\n", sizeof(struct s2) , sizeof(o2) ,
                        sizeof(o2.o1)):
    return 0:
A. 24 24 16
B. 12 12 8
C. Both A and B
D. None of the above
Answer: B
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Use Define Data Type
3.
#include<stdio.h>
struct s2 {
    char *cp;
    struct s1{
        char a[4]:
        char *p;
    } 01;
}o2 = {"DAC", "DESD", "DMC"};
int main(void)
    printf("%s %s\n",++o2.cp,++o2.o1.p);
    return 0:
A. AC MC
B. AC ESD
C. MC AC
D. ESD MC
Answer: A
4.
#include<stdio.h>
int main(void)
    struct s{
        char *p;int i;
        struct s *sp;
    }a[] = {"abcd",1,a+1,"efgh",2,a+2,"ijkl",3,a}, *p;
    p = a;
    printf("%s %s %s\n",a[0].p,p->p,a[2].sp->p);
    return 0;
A. abcd abcd iikl
B. abcd efgh ijkl
C. abcd abcd efgh
D. abcd abcd abcd
Answer: D
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Use Define Data Type
5.
#include<stdio.h>
struct s {
    int i;
    struct s obj;
}s1;
int main(void)
    s1.i = 100;
    s1.obj = s1;
    printf("%d",s1.obj.i);
    return 0;
A. 100
B. Garbage value
C. Compiler error
D. Run time error
Answer: C
6.
#include<stdio.h>
union
    short i:
    char c;
}u;
int main(void)
    u.c = 'D';
    u.i = 0x0041;
    printf("%d %c", sizeof(u), u.c);
    return 0:
A. 2 A
B. 2 D
C. 3 A
D. 3 D
Answer: A
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```
Use Define Data Type
7.
#include<stdio.h>
union u{
    int i;
    char c[4]:
int main(void)
    union u u1;
    u1.i=0:
    u1.c[1] = u1.c[2] = 'F';
    printf("%s",u1.c);
    return 0:
A. no outout return value from main function is zero
B. Garbage character followed by 'FF'
C. FF
D. Compile Error
Answer: A
8. consider 32 bit compilation.
#include<stdio.h>
#pragma pack(1)
        struct
            char ca[10];
            union u
                 int i:
                 char c:
                long int l;
             }u1;
        }s1:
int main(void)
    printf("%d", sizeof(s1) + sizeof(s1.u1));
    return 0;
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```

```
Use Define Data Type
A. 20
B. 18
C. 23
D. 26
Answer: B
9.
#include<stdio.h>
int main(void)
    enum colours {RED,BLACK,WHITE=5,YELLOW,BLUE,GREY};
    printf("%d %d %d",RED,YELLOW,BLUE,GREY);
    return 0:
A. 1 2 3 4
B. 0 2 3 4
C. 1 6 7 8
D. 0 6 7 8
Answer: D
10.
#include<stdio.h>
int main(void)
{
    enum choice {CH1, CH2, CH3};
    enum choice ch1, ch2, ch3;
    ch1 = CH1;
    ch2 = CH3;
    ch3 = CH2;
    printf("%d, %d, %d,", ch1, ch2, ch3);
    return 0:
A. 0, 1, 2
B. 1, 2, 3
C. 0, 2, 1
D. 1, 3, 2
Answer: C
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```

```
Use Define Data Type
11.
#include<stdio.h>
int main(void)
    enum choice {CH1, CH2, CH3};
    enum choice ch1, ch2, ch3;
    ch1 = CH1:
    ch2 = CH3:
    ch3 = ch2-ch1:
    printf("%d %d", sizeof(enum choice), ch3);
    return 0:
A. 4 2
B. 2 2
C. 4 1
D. 2 1
Answer: A
12.
#include<stdio.h>
int main(void)
{
    typedef int int t;
    int_t *iptr;
    int ival = 60;
    iptr = &ival;
    printf("%d",*iptr);
    return 0:
A. 60
B. Compiler error
C. Linker error
D. Runtime error
Answer: A
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```

```
Use Define Data Type
13.
Select correct answer
typedef int (*funptr)(int, int);
A. funptr is a function pointer
B. funptr can be used as type
C. Both A and B
D. None of the above
Answer: C
14.
#include<stdio.h>
int main(void)
    typedef struct {
        int val;
        test_t *ptr;
    }test t;
    test_t obj = { 25, &obj};
    printf("%d",obj.ptr->val);
    return 0:
A. 25
B. Compiler time error
C. Run time error
D. None of the above
Answer: B
15.
#include<stdio.h>
struct demo
    int d1:2;
    int d2:3;
};
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```
Use Define Data Type
int main(void)
    struct demo ds;
    ds.d1 = 1:ds.d2 = 3:
    printf("%d %d ", ds.d1,ds.d2);
    ds.d1 = 2; ds.d2 = 7;
    printf("%d %d", ds.d1,ds.d2);
    return 0:
A. 1 3 2 7
B. 1 3 -2 -1
C. Compiler error
D. None of the above
Answer: B
16.
#include<stdio.h>
struct time {
    int ss:7:
    int mm:7;
    int hh:4;
};
int main(void)
    struct time t1;
    printf("%d %d", sizeof(t1), sizeof(t1.ss));
    return 0;
B. Compiler error
C. Runtime error
D. None of the above
Answer: B
```