

1.

```
#include<stdio.h>
int main(void)
{
    enum colors{RED=0,BLUE=-1,GREEN,YELLOW=-1};
    typedef enum colors COLORS;

    printf("%d, %d, %d, %d, %d",RED,BLUE,GREEN,YELLOW,
        sizeof(RED)/ sizeof(COLORS));

    return 0;
}
```

A. Compile time Error

B. 0, -1, -2, -3, -1, 1

C. 0, -1, 0, -1, 1

D. 0, -1, -1, -1, 1

E. ~~0, -1, 0, -1, 1~~

Answer: C

2.

```
#include<stdio.h>
int main( void )
{
    int capacity= 60;
    enum courses {DAC=capacity*4, KDAC=capacity *2,
    DMC=capacity*2,DESD=capacity*2,
    DBDA=capacity, DITISS=capacity};

    typedef enum courses COURSES;

    printf("\t DAC = %d ",DAC );
    printf("\t KDAC = %d DMC = %d DESD =%d" ,KDAC, DMC,DESD );
    printf("\t DBDA = %d DITISS = %d " ,DBDA, DITISS );

    return 0;
}
```

- A. DAC=240 KDAC=120 DMC=120 DESD=120 DBDA=60 DITISS=60
B. DAC=60*4 KDAC=60*2 DMC=60*2 DESD=60*2 DBDA=60
DITISS=60
C. DAC=240 KDAC=120 DMC=60 DESD=120 DBDA=60 DITISS=60
D. DAC=60 KDAC=60 DMC=60 DESD=60 DBDA=60 DITISS=60
E. Compile time error

Answer: E

3.

what will be the output of following code?

```
#include<stdio.h>
typedef enum calculations
{
    SUM, MINUS, DIV, PRODCUCT
} CALCULATIONS;
int main()
{
    typedef enum calculations CALCULATIONS;
    START:
    CALCULATIONS c=PRODCUCT;
    switch (c)
    {
        case SUM : printf("ans=%d", 10+20);break;
        case MINUS : printf("ans=%d", 10-20);break;
        case DIV : printf("ans=%d", 10/20);break;
        case PRODCUCT : printf("ans=%d", 10*20); goto START;
        default: continue;
    }
    return 0;
}
```

- A. 10*20
B. 200
C. compile time error
D. print 200 infintie time

Answer: C

4.

```
#include<stdio.h>
int main(void)
{
    enum subject {SUB1=-3, SUB2, SUB3, SUB4};
    enum subject sub1, sub2, sub3, sub4;

    sub1= SUB4;
    sub2= SUB1;
    sub3= SUB2;
    sub4= SUB3;

    printf("%d, %d, %d, %d ", sub4, sub1, sub2, sub3);
    printf("%d", (int)sizeof(enum subject)/ sub1-sub2);
    return 0;
}
```

- A. -1, 0, -3, -2 0
- B. -1, -3, 0, -2 0
- C. -1, 0, -2, -3 0
- D. run time error
- E. Compile time error

Answer: D

```
5.
#include<stdio.h>
enum state {working, failed};
enum result {failed, passed};
int main(void)
{
    typedef enum state STATE;
    typedef enum result RESULT;
    printf("%d, %d, %d, %d ", working, failed, failed, passed);

    return 0;
}
```

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- A. 0, 1, 0, 1
- B. 1, 2, 1, 2
- C. 0, 1, 2, 3
- D. run time error
- E. Compile time error

Answer: E

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