

PG-DESD - C Programming Twisters Activity

1. What will be the output of following program?

```
#include <stdio.h>
#define area(x) (x * x)
int main(void)
{
    printf("%d ",area(6 + 3));
    return 0;
}
```

2. What will be the output of following program?

```
#include <stdio.h>
#define print_mul(x, y) printf("%d * %d = %d", x,y,x*y)
int main(void)
{
    int a = 3;
    print_mul(a, 3);
    return 0;
}
```

3. What will be the output of following program?

```
#include <stdio.h>
#define greater(a, b) (a > b)? a : b
int main(void)
{
    int x = 3, y = 4;
    if(greater(x, y))
        printf("sun");
    else
        printf("beam");
    return 0;
}
```

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4. What will be the output of following program?

```
#include <stdio.h>
#define max(a, b) (a > b)? a : b
int main()
{
    int x = 3, y = 4, z;
    z = max(++x, y++);
    printf("%d, %d, %d", x, y, z);
    return 0;
}
```

5. What will be the output of following program?

```
#include<stdio.h>
#define int char
int main( void )
{
    int* i = 65, j=56;
    printf("sizeof(i)=%d sizeof(j)=%d",sizeof(i),sizeof(j));
    return 0;
}
```