ASSIGNMENT

1. Write a function to calculate nth term of the Fibonacci series using recursion.

2. Write a function to calculate GCD of given numbers using recursion.

3. Write a function to print a given character for a given number of times.

TWISTERS

1.
```
#include <stdio.h>
int demo(char p1, char p2)
{
	char p3;
	p3 = ~p1 + ~p2;
	return p3;
}

int main(void)
{
	char p1 = 255, p2 = 256;
	char p3 = demo(~p1++, ~p2--);
	printf("%d %d %d\n", p1, p2, p3);
	return 0;
}
```

A. -1 -1 0
B. -1 0 -1
C. 0 -1 -1
D. None of the above

Answer: C

```
#include <stdio.h>
int i = 0;

int main(void)
{
        auto int i = 1;
        printf("%d ", i);
        {
                int i = 2;
                printf("%d ", i);
                {
                        i += 1;
                        printf("%d ", i);
                }
                printf("%d", i);
}
printf("%d", i);
return 0;
}
```

A. 0 1 2 2 0
B. 1 2 3 2 1
C. 1 2 3 3 1
D. 0 1 2 1 0

Answer: C

3. #include <stdio.h>

```
int my = 0;

int myset(int my)
{
        printf("%d ", my++);
        return my = my <= 2 ? 5 : 0;
}
int main(void)
{
        int my = 5;
        myset( my/2 );
                printf("%d ", my);
        myset( my=my/2 );
                printf("%d ", my);
        my = myset( my/2 );
                printf("%d ", my);
        return 0;
}
```

A. 3 5 3 2 2 5
B. 2 5 2 2 1 5
C. 2 3 2 2 2 5
D. 3 3 3 2 1 5

Answer: B

4. #include <stdio.h>

```
int main(void)
{
        int a = 1;
        int *p = &a;
        int *q = p;
        *p = *p + *q;
        printf("%d%d%d", *p ,a, *q);
        return 0;
}
```

A. 111
B. 222
C. 211
D. 221

Answer: B