

## Write a C Program to generate first N Magic Numbers.

```
#include<stdio.h>

int nthMagicNo(int n)
{
    int pow = 1, answer = 0;
    while (n)
    {
        pow = pow*5;
        if (n & 1)
            answer += pow;
        printf("%d ",pow);
        n >>= 1;
    }

}

int main()
{
    printf("Input: n = 1\n");
    printf("output: ");
    nthMagicNo(1);
    printf("\nInput: n = 2\n");
```

```

printf("output: ");

    nthMagicNo(2);

    printf("\nInput: n = 3\n");

printf("output: ");

    nthMagicNo(3);

    printf("\nInput: n = 8\n");

printf("output: ");

    nthMagicNo(8);

return 0;

}

```

The screenshot shows the OnlineGDB online compiler interface. The left sidebar contains navigation links: 'OnlineGDB beta', 'Welcome, Priyanka Killedar', 'Create New Project', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', and 'Logout'. The main editor area displays the C code from the previous block. The output console shows the results of the program execution for three different input values: n=1, n=2, and n=8. The output for n=1 is 5, for n=2 is 25, and for n=8 is 125 625. The program finished with exit code 0.

```

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input
Run Debug Stop Share Save Beautify
Input: n = 1
output: 5
Input: n = 2
output: 5 25
Input: n = 3
output: 5 25
Input: n = 8
output: 5 25 125 625
...Program finished with exit code 0
Press ENTER to exit console.

```