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#include <stdio.h>

int main(){
    int n, i, distFactors = 0, M = 0;
    scanf("%d", &n);

    printf("1"); // 1 is always a divisor of every number n

    for(i = 2; i <= n; i++)
        if(n % i == 0)
            printf(" %d", i); // Print divisors of n

    while(distFactors != n){
        M++; // Going to calculate distinct factors for next M
        distFactors = 0; // Reset the counter
        for(i = 1; i <= M; i++)
            if(M % i == 0)
                distFactors++;
    }

    printf("\n%d", M);

    return 0;
}
```