Source Code:

```
def count_triplets_with_product(arr, n, m):
        count = 0
        # Check every combination of triplets
        for i in range(n):
             for j in range(i + 1, n):
                 for k in range(j + 1, n):
                     \ensuremath{\text{\#}} If the product of triplet is equal to \ensuremath{\text{m}}
                     if arr[i] * arr[j] * arr[k] == m:
                         count += 1
        return count
    # Reading input
    n = int(input()) # Read the size of the array
    arr = list(map(int, input().split())) # Read the array elements
    m = int(input()) # Read the target product
    # Output the result
    print(count_triplets_with_product(arr, n, m))
RESULT
```

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