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C++1.33 KB

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1.#include <iostream>

2.#include <vector>

3.#include <unordered_map>

4.#include <numeric>

5.#include <cassert>

6.

7.using namespace std;

8.

9.constexpr int MAX_M = 10'000;

10.std::array<int, MAX_M> cnt;

11.

12.long long nchoose2(int n){

13. return 1LL * n * (n - 1) / 2;

14.}

15.

16.long long nchoose3(int n){

17. return 1LL * n * (n - 1) * (n - 2) / 6;

18.}

19.

20.int main(){

21. ios_base::sync_with_stdio(false);

22.

23.int N, M;

24.assert(cin >> N >> M);

25.assert(1 <= N && N <= 200'000);

26. assert(1 <= M && M <= 10'000);

27.

28.for (int i = 0; i < N; i++){

29. int x;

30. assert(cin >> x);

31. assert(0 <= x && x <= 2'000'000'000);

32. cnt[x % M]++;

33.}

34.

35.long long answer = 0;

36.

37.for (int i = 0; i < M; i++){

38. if (cnt[i] > 0){

39. for (int j = i; j < M; j++){

40. if (cnt[j] > 0){

41. int sum = (i + j) % M;

42. int k = (M - sum + M) % M;

43.

44. if (i <= j && j <= k){

45. if (i == j && j == k){

46. answer += nchoose3(cnt[i]);

47. }

48. else if (i == j){

```
49.         answer += nchoose2(cnt[i]) * cnt[k];
50.     }
51.     else if (j == k){
52.         answer += nchoose2(cnt[j]) * cnt[i];
53.     }
54.     else{
55.         answer += 1LL * cnt[i] * cnt[j] * cnt[k];
56.     }
57. }
58. }
59. }
60. }
61. }
62.
63. cout << answer << "\n";
64.
65. return 0;
66. }
```

RAW Paste Data

```
#include <iostream>
#include <vector>
#include <unordered_map>
#include <numeric>
#include <cassert>

using namespace std;

constexpr int MAX_M = 10'000;
```



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