- 1. Let f[i] denote the number of integers that &i = 0, which can be computed in  $O(U \log U)$  time using Möbius transformation. Enumerate two numbers, then count the number of valid third integers using f.  $O(n^2 + U \log U)$ .
- 2. Use fast Walsh-Hadamard transform.  $O(n + U \log U)$ .

## References