

动态规划：1027. 最长等差数列

代码：

```
1  class Solution {
2  public:
3      int longestArithSeqLength(vector<int>& nums) {
4          int n = nums.size();
5          unordered_map<int,int> hash;
6          hash[nums[0]] = 0;
7          int max1 = 2;
8
9          vector<vector<int>> dp(n,vector<int>(n,2));
10
11         for(int i = 1;i < n-1;i++)
12         {
13             for(int j = i+1; j < n;j++)
14             {
15                 int a = 2* nums[i] - nums[j];
16                 if(hash.count(a))
17                 {
18                     dp[i][j] = dp[hash[a]][i] + 1;
19                 }
20                 max1 = max(max1,dp[i][j]);
21             }
22             hash[nums[i]] = i;
23         }
24         return max1;
25
26     }
27 };
```