

Minimum Time Disservence (539) aiven a 1:37 of 24 ms clock time 30:178 in Hu: mm ' formet 1 siehen the minimum minutes diff blue ony two time goints (n the 1:82. 12:15 12:20 23:59 10:15 william winote Bill for Ex 5:12 -> 1:00 -> 60 wiv 19 farism to other grites stadou treunas ( Sto! > convert steering (1) of ? \* moles sure we colculated time forom

12:10 10:15 13:15 12:20 18:00 19:47 23:59 The winter 613 795 1040 1080 1187 1439 10min (Culogn) (Goot Sech ere with other ere 180 187 1439 1040 ger difference smin Compara this also

23159 00:00 1, 802, 1439 Erack ons -> 1 min How? cycle clock Time is convion 1439 7 mox me ditt 71 Eing wird 300:00 Con we steplice 0 -> 1440 ) 1 Cacle of Clock =) Show -> INHO win after 27 m the cycle will prestant

```
class Solution {
public:
  int findMinDifference(vector<string>& timePoints) {
     vector<int> minutes;
     // convert string to min and push in vector
     for(int i = 0; i < timePoints.size(); i++){
        string curr = timePoints[i];
       // fetch hour
       // stoi -> convert string into number
        int hr = stoi(curr.substr(0,2));
        int min = stoi(curr.substr(3,2));
        int totalMin = hr * 60 + min;
        minutes.push back(totalMin);
     // to reduce T.C. n^2 -> nlogn
     sort(minutes.begin(),minutes.end());
     // find difference and cal min diff
     int mini = INT MAX;
     int n = minutes.size();
     for(int i = 0; i < n-1; i++){
        int diff = minutes[i+1] - minutes[i];
        mini = min(mini, diff);
     // edge case
     int lastDiff = (minutes[0] + 1440) - minutes[n-1];
     mini = min(mini, lastDiff);
                                                          disterente
     return mini:
```