## 1605. Find Valid Matrix Given Row and Column Sums

```
Time complexity: O(n*m)
  Extra space complexity: O(1)
class Solution {
public:
  std::vector<std::vector<int>> restoreMatrix(std::vector<int>& rowSum, std::vector<int>& colSum)
    int n=rowSum.size();
    int m=colSum.size();
    std::vector<std::vector<int>> ans(n,std::vector<int>(m,0));
    for(int i=0;i<n;++i){
       for(int j=0; j < m; ++j){
         ans[i][j]=std::min(rowSum[i],colSum[j]);
         rowSum[i]-=ans[i][j];
         colSum[j]-=ans[i][j];
       }
     }
    return ans;
};
```