Input: Adjacency Matrix $A$ for $G=(V, E), G$ unweighted, undirected Output: ??

1. $S=0$
2. for $i=1$ to $|v|$ :
3. for $j=1$ to $i$ :
4. $\quad S=S+A[i, j]$
S. return $S$


Returns $|E|$

How many operations?

- Use $\sum$ for loops
- Use 1 for $O(1)$ operations
some constant
\# operations $=\sum_{i=1}^{\searrow}+\sum_{i=1}^{|v|}$ work done inside $i^{\text {th }}$ loop iteration]


