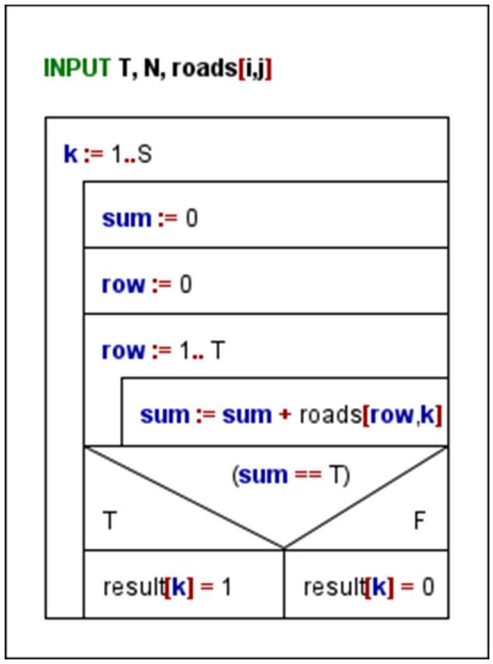
Ulkar Chobanova B3 Task Algorithm, Specification and Code

Pattern of Algorithm: Multiple Item Selection and Sequence Calculation

Specification :

Input:	*Precondition:*
T ∈ ℕ , S ∈ ℕ, $roads[i,j] \in Z^{TxS}$	1 ≤ T ≤ 100 1 ≤ S ≤ 100 ∀i (1 ≤ i ≤ T) and ∀j(1 ≤ j ≤ S)
Output:	*Postcondition:*
result[1..S] ∈ Z	sum = $\sum_{i=1,j=1}^{T,N}$ roads[i,j] (cnt, result) = $MULTISELECT(i)^{T}{}_{i=1}{}_{sum=T}$

Algorithm:



Code:

```
namespace ConsoleApp71
{
    internal class Program
    {
        static void Main(string[] args)
        {
            string input = Console.ReadLine();
            int T = Convert.ToInt32(input.Split(' ')[0]);
```

```
            int S = Convert.ToInt32(input.Split(' ')[1]);

            int[,] roads = new int[T, S];

            for (int i = 0; i < T; i++)
            {
                string[] road = Console.ReadLine().Split(' ');
                for (int j = 0; j < S; j++)
                {
                    roads[i, j] = int.Parse(road[j]);
                }
            }

            int[] result = new int[S];

            for (int k = 0; k < S; k++)
            {
                int count = 0;
                int row = 0;

                for (row = 0; row < T; row++)
                {
                    count += roads[row,k];
                }

                if (count == T)
                {
                    result[k] = 1;
                }
                else
                {
                    result[k] = 0;
                }
            }

            for (int i = 0; i < S; i++)
            {
                Console.Write(result[i] + " ");
            }
        }
    }
}
```