```
GRADIENT-DESCENT (f, \mathbf{x}^{(0)}, \nu, T)
1 sum = 0
                                                // n-dimensional vector, initially all 0
2 for t = 0 to T - 1
         sum = sum + x^{(t)}
                                                // add each of n dimensions into sum
         \mathbf{x}^{(t+1)} = \mathbf{x}^{(t)} - \gamma \cdot (\nabla f)(\mathbf{x}^{(t)}) / (\nabla f)(\mathbf{x}^{(t)}), \mathbf{x}^{(t+1)} are n-dimensional
   x-avg = sum/T
                                                // divide each of n dimensions by T
6 return x-avg
```