Input: *dataset* : array of integers

Input: *t* : max partition size

Output: minimum inequality score for the array

```
1  Algorithm IterEP
2  n = size of dataset - 1
3  EP = Array(n,n)
4  Initialize EP to MAX_INT
5  for i = 0 to n
6    |
7    |  sum = 0
8    |  for j = i to n
9    |   | sum = sum + dataset[j]
10   |   | if sum <= t
11   |   |  |
12   |   |  | if i != 0
13   |   |  |  | EP[i][j] = (t-sum)^2 + min(EP[0...n][i-1])
14   |   |  | else
15   |   |  |  | EP[i][j] = (t-sum)^2
16   |  |  | end
17   |  | else
18   |  |  | break
19   |  | end
20   | end
21  end
22
23  return min([0...n][n])
```