Laboratory and participation work

Hints: Toroidal correction

procedure toro($\mathbf{x}$)
  for $i = 0 : n$ **do**
    $\mathbf{x_{cor}}[i] \leftarrow \frac{\mathbf{x}[i]-\mathbf{x^L}[i]}{\mathbf{x^U}[i]-\mathbf{x^L}[i]}$ ▷ Normalisation
    if $\mathbf{x_{cor}} > 1$ **then**
      $\mathbf{x_{cor}}[i] \leftarrow \mathbf{x_{cor}}[i] - fix\left(\mathbf{x_{cor}}[i]\right)$
    else if $\mathbf{x_{cor}} < 0$ **then**
      $\mathbf{x_{cor}}\left[i\right] \leftarrow 1 - \left|\mathbf{x_{cor}}\left[i\right] - fix\left(\mathbf{x_{cor}}\left[i\right]\right)\right|$
    end if
    $\mathbf{x_{cor}}\left[i\right] \leftarrow \mathbf{x^L} + \mathbf{x_{cor}}\left[i\right] \cdot \left(\mathbf{x^U}[i] - \mathbf{x^L}[i]\right)$ ▷ Rescaling
  end for
  Output $\mathbf{x_{cor}}$
end procedure