```
task 11. Dervei eers()
      while True do
            Wait for a connection from P_i^?
            for S^t \in S do
                  if |T^t| < N then [S^t] \Rightarrow P_i^?
task \mathcal{R}.UpdateFullness()
      while True do
            [|\mathcal{T}_i|] \leftarrow \mathcal{S}_i
task S_i.ServePeers()
      while True do
            Wait for connection from \mathcal{P}_i
            if \mathcal{P}_i is joining then
                  for \mathcal{P}_k \in \mathcal{T}_i do [\mathcal{P}_k] \Rightarrow \mathcal{P}_i
                  \mathcal{T}_i = \mathcal{T}_i \cup \mathcal{P}_i
            else

\mathcal{T}_j = \mathcal{T}_j \setminus \mathcal{P}_i \\
[|\mathcal{T}_i|] \Rightarrow \mathcal{R}

task \mathcal{P}_k.(\mathcal{P}_i)
                                                                                          ⊳ Reply a [hello] message
      [\mathtt{hello}] 	o \mathcal{P}_i
\mathbf{task} \; \mathcal{P}_i.\mathrm{Join}(\mathcal{R})
                                                                               \triangleright Incoming peer \mathcal{P}_i joins a team
      [[S_i]] \leftarrow \mathcal{R}.\text{GetSplitter}(\mathcal{P}_i)
                                                                                                       ▶ Receive a splitter
      for \mathcal{P}_k \in [[\mathcal{T}_i]] \leftarrow \mathcal{S}_i. GetPeers(\mathcal{P}_i) do
                                                                                               ▶ Receive a list of peers
             [\mathtt{hello}] 	o \mathcal{P}_k
             [hello] \leftarrow \mathcal{P}_k \text{ with timeout}
```