```
predict_Bandwidth = predict_bandwidth(Bw_history, Error)
for j in range(GoP):
    Esm_history.append(predict_Bandwidth[0])
if index >= tau:
    Bw_history = Bandwidth[(index+1-tau)*GoP:(index+1)*GoP]
    for j in range(GoP):
        Esm_history.remove(Esm_history[0])
else:
    Bw_history = Bandwidth[0:(index+1)*GoP]

Error = 0.0
for j in range(len(Esm_history)):
    if j%GoP==0:
        Error = max(Error, abs(Esm_history[j]-Bw_history[j])/Bw_history[j])
```