Procedure ForwardBackwardSBP(s)
{
    //This procedure improves the solution through the Shifting Bottleneck Forward Backward method
    //s is a solution
    Set m to the number of machines;
    Set the array L to the list of machines, {1,2,….m}
    maxIter=0;
    i=1;
    while (maxIter < 2*m)
    {
        With the chance of 0.5, select either the forward or the backward method;
        Set machine L[i] as unscheduled;
        Compute heads and tails;
        Solve one-machine Carlier problem for machine L[i];
        Apply the proposed sequence to solution s and set the new solution as s’;
        if ( makespan(s’) < makespan(s ) )
        {
            Set s to s’;
            maxIter=0;
        }
        else  maxIter++;
        i=i+1;
        if ( i>m)
        {
            Rearrange the machine numbers on the array L based on their solution to the one-machine problem;
            i=1;
        }
    }//end while
}//end of procedure