```
BW_alg()
begin
 if Noise_stage_check() = FAILURE then return FAILURE
 if Distor_stage_check() = FAILURE then return FAILURE
 select NetList(source) and Eliminate()
 repeat
  begin
   count all devices from every stage
   Numb_noise = all devices from Noise_stage
   Numb dist = all devices from Dist stage
  end
 until all devices from NetList have been tried
 if Numb_noise > 1 then select_device( last Noise stage device )
  if Noise_stage_device is not Differential then i_x_selected_device = g_m_noise
  else
   if Numb_dist > 1 then select_device( last Dist stage device)
    if Dist_stage_device is Differential then i_x_selected_device = g_m_diff_dist
    else
      i_x_selected_device = g_m_dist
 repeat
  begin
   TF = Calculate\_TF(from i_x\_selected\_device to V\_g_m\_selected\_device)
   LGP = multiply TF by g_m\_selected\_device
   DC_LGP = LGP when s=0
   Poles = Calculate poles (use LGP)
   Number_poles = count Poles
    repeat
     begin
      Poles_prod = multiply Poles_prod by Poles
    until all poles have been tried
    /* n = Number_poles */
    Fn_max = n-root of (1-(DC_LGP)(Feedback_value)) multiplied by Poles_prod
    if Fn_max is TOO LOW then Adjust_fn_max()
    else
     if Fn_max ≥ desired_BW then return SUCCESS
    else
     Compensate()
 until the Adjust and/or Compensate have been tried
end
```