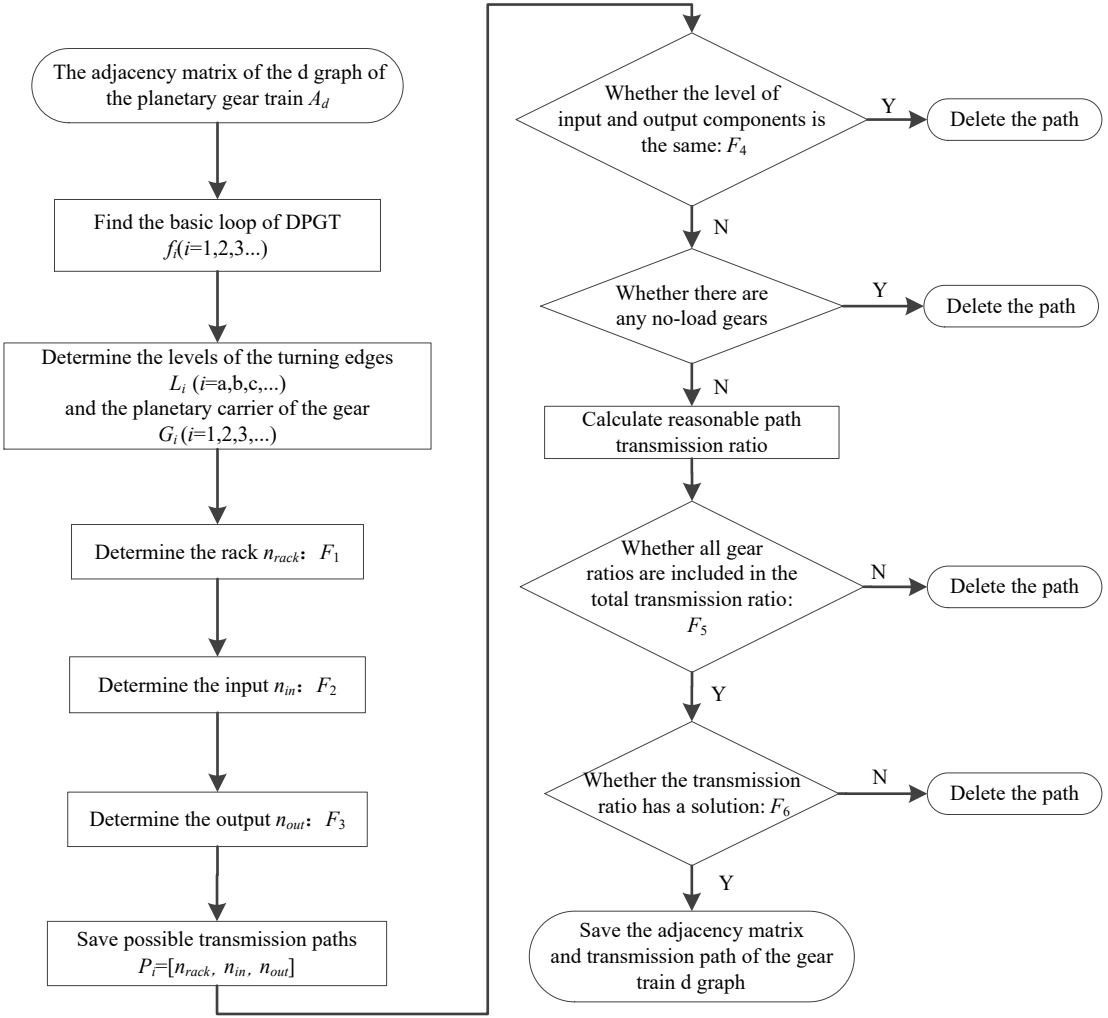
The adjacency matrix of the d graph of the planetary gear train A_d
Find the basic loop of DPGT $f_i(i=1,2,3...)$
Determine the levels of the turning edges L_i (i=a,b,c,...) and the planetary carrier of the gear G_i (i=1,2,3,...)
Determine the rack n_{rack}: F_1
Determine the input n_{in}: F_2
Determine the output n_{out}: F_3
Save possible transmission paths $P_i=[n_{rack}, n_{in}, n_{out}]$
Whether the level of input and output components is the same: F_4
Y
Delete the path
N
Whether there are any no-load gears
Y
Delete the path
N
Calculate reasonable path transmission ratio
Whether all gear ratios are included in the total transmission ratio: F_5
N
Delete the path
Y
Whether the transmission ratio has a solution: F_6
N
Delete the path
Y
Save the adjacency matrix and transmission path of the gear train d graph