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# Load the necessary libraries
import clr
clr.AddReference('ProtoGeometry')

# The inputs to this node will be stored as a list in the IN variables.
ST = IN[0]
SI = IN[1]
SL = IN[2]

# Tolerances for slope values
tolerance_sl_2 = 0.10
tolerance_sl_1 = 0.10

# Initialize an empty list to store results for each pipe
results = []

# Function to check slope with tolerance
def check_slope(target, actual, tolerance):
    try:
        actual_float = float(actual)
        return abs(float(target) - actual_float) <= tolerance
    except ValueError:
        return False

# Iterate through each pipe and check conditions
for i in range(len(ST)):
    condition_met = False

    if ((ST[i] == "PLB_Sewerage") and (SI[i] == "50") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Sewerage") and (SI[i] == "63") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Sewerage") and (SI[i] == "75") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Sewerage") and (SI[i] == "110") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Sewerage") and (SI[i] == "160") and check_slope("1.0", SL[i], tolerance_sl_1)):
        condition_met = True

    elif ((ST[i] == "PLB_Rain Water Drain") and (SI[i] == "50") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Rain Water Drain") and (SI[i] == "110") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Rain Water Drain") and (SI[i] == "160") and check_slope("1.0", SL[i], tolerance_sl_1)):
        condition_met = True

    elif ((ST[i] == "PLB_AHU Drain") and (SI[i] == "32") and check_slope("1.0", SL[i], tolerance_sl_1)):
        condition_met = True

    elif ((ST[i] == "PLB_Cabinets/Shaft Drain") and (SI[i] == "50") and check_slope("2.0", SL[i], tolerance_sl_2)):
        condition_met = True

    elif ((ST[i] == "PLB_Balcony Drain") and (SI[i] == "75") and check_slope("1.0", SL[i], tolerance_sl_1)):
        condition_met = True

    results.append(condition_met)

# Assign your output to the OUT variable.
OUT = results

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