This process is labor-intensive and inefficient. The rationale behind this is that if we have a complete graph, K-N, with N vertices, then there are (N-1)! circuits to list, compute the weight of, and then choose the shortest from. Even if we cut this enormous number of (N-1)! in half, it would still take longer for N as tiny as 28 by brute force than the cosmos has existed. I'm not sure about others, but I don't feel like I have a lot of time on my hands. Even if it were possible, I would prefer to perform some other type of mathematics than list circuits by brute force.