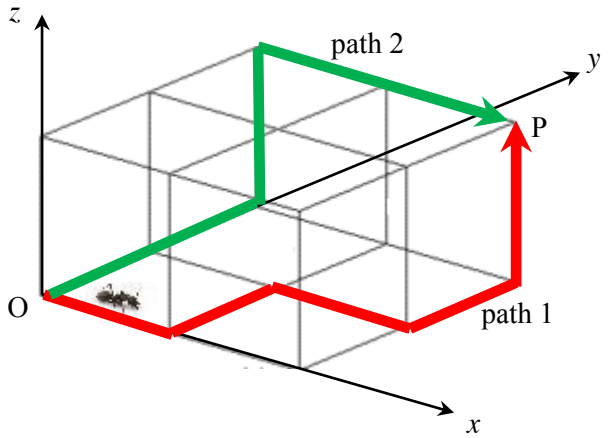
Three-Dimensional Grid

(Time limit: 1 second)

An ant wants to travel in a three-dimensional wire grid from point O to point P. It can only crawl on the wire in the positive direction of every axis (no backward move). The situation is illustrated below for a wire grid of size 2 x 2 x 1.



On the simplest grid of size 1 x 1 x 1, the ant has six possible paths to travel from O to P, those are: XYZ, XZY, YXZ, YZX, ZXY and ZYX, where X means one step forward in x+ direction, Y means one step forward in y+ direction and Z means one step forward in z+ direction.

Your task is to compute the number of possible paths, N_P, for the ant to travel from O to P in a wire grid of size N_x x N_y x N_z

Input:
Three positive integers: N_x, N_y, N_z ($1 \le N_x, N_y, N_z \le 14$), separated by space.

Output:
Number of possible paths, N_P.

Sample Input	Output for Sample Input
1 1 1 1 2 3 2 2 3 2 5 4 3 4 7 11 5 8	6 60 210 6930 120120 3212537328