1. Symbolically execute the following program, assuming that the input y maps to α and z maps to β. Give the possible symbolic results, along with the guard for each result.

int foo(**int** y, **int** z)

  int w := y;

  if (y > 0)

    w = y * 2;

  if (w < 2)

    z = z + 1;

  return w + z