```
int twice(int v) {
                                   Find an input that causes the
  return 2 * v;
                                   program to reach the ERROR?
void test(int x, int y) {
  z = twice(y);
                                    Symbolic store
                                                         Path constraint
  if (x == z) {
                                                           x_0 = 2 * y_0
                                        \chi \mapsto \chi_0
    if (x > y + 10)
                                        y \mapsto y_0
       ERROR:
                                      z \mapsto 2 * y_0
int main() {
  x = read();
                                    We update the path constraint to
  y = read();
                                    capture that the (x == z) evaluates to true
  test(x,y);
```