## Inputs:

reference, target code adapter family  $F_A$  default adapter empty test list

## CheckAdapter

Q: Is there an input on which the reference and target code outputs differ with the current adapter?

A: No The target code is substitutable with the current adapter

A: Yes, A is a suitable adapter (set the current adapter to A)

**A**: No

A: Yes,  $x_1$ , ...,  $x_n$  is a counterexample (add  $x_1$ , ...,  $x_n$  to the test list)

The target code is not substitutable with any adapter in  $F_A$ 

## SynthesizeAdapter

**Q**: Is there an adapter such that the output of the reference and target code is the same on all current tests?