TestHalt (P, 2) reither bops nor helk.

But, every program either bops or halt.

TestHalt (P, 2) is not a program.

- Test Halt exists

$$P_{1}$$
 P_{2} P_{3} ...

 P_{1} P_{2} P_{3} ...

 P_{2} P_{3} P_{4} P_{5} $P_$

