

Exercise on decision tables: Construct a decision table for the following piece of Lenton local knowledge:

When a burglar alarm sounds, if it is in one of students' houses where alarm sounds every week, ignore it. Otherwise have a look outside and if the house looks not broken into and there is nobody moving inside it, ignore the alarm. Otherwise call police.

List the resulting rules.

Answer .

	Rule 1	Rule 2	Rule 3
One of those houses	Y	N	N
Suspicious activity	-	N	Y
Ignore	X	X	
Call police			X

Resulting rules:

- Rule 1: **if** one of those houses **then** ignore
- Rule 2: **if not** one of those houses **and not** suspicious activity **then** ignore
- Rule 3: **if not** one of those houses **and** suspicious activity **then** call police

Note: rule 2 will work just as well if skip the first check:

- Rule 2: **if not** suspicious activity **then** ignore