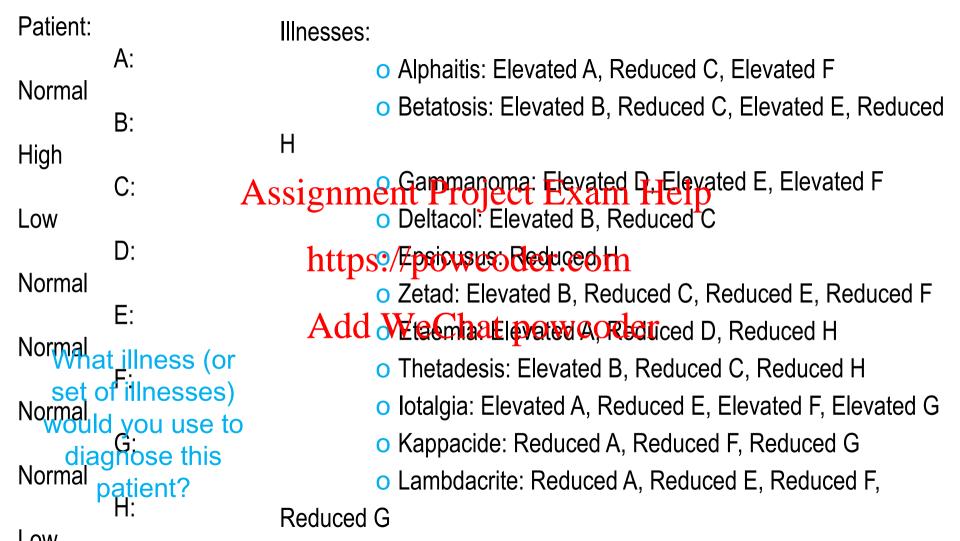
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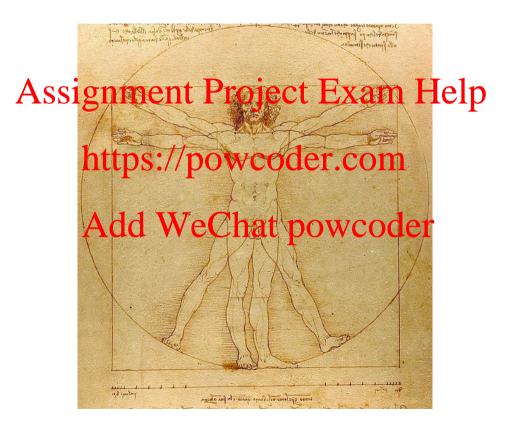
**Design & Creativity** Configuration Assignment Project Exam Help https://powcoder.com Add WeChat powcoder Creativity

#### **Lesson Preview**

- Defining diagnosis
- Data and hypothesis spaces Assignment Project Exam Help
- Mapping data to hypotheses
  https://powcoder.com
- Two views of diagnosis

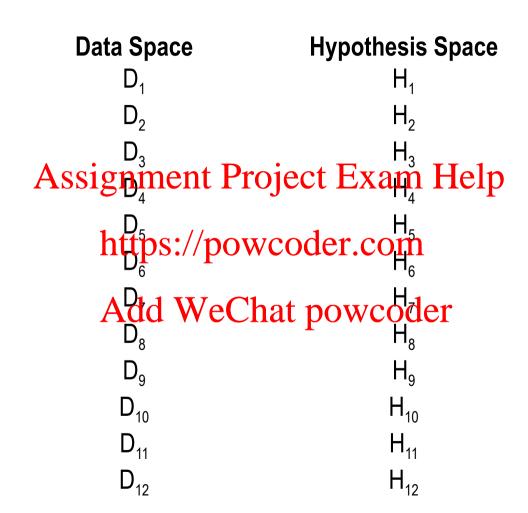


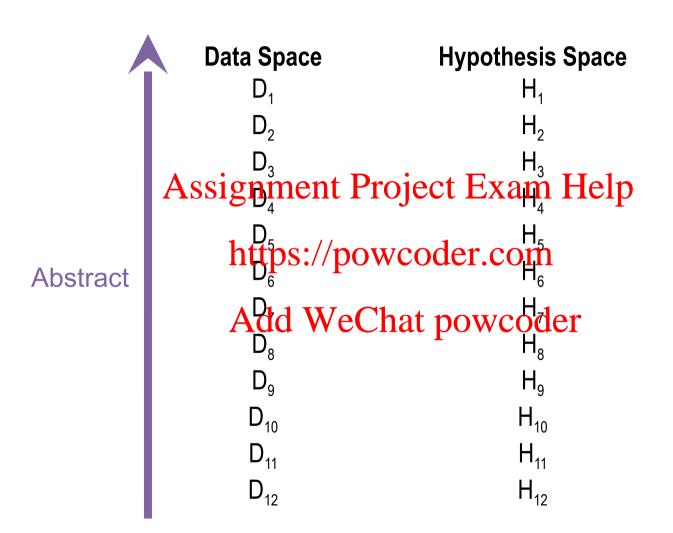
## **Diagnosis:** To determine what is wrong with a malfunctioning device.

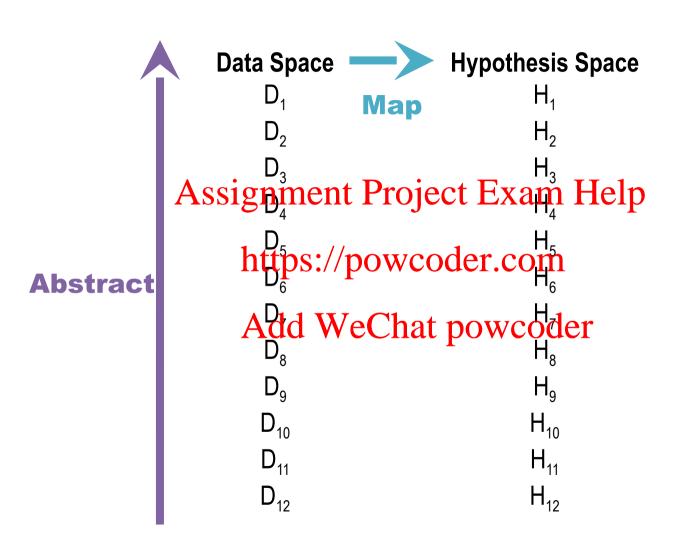


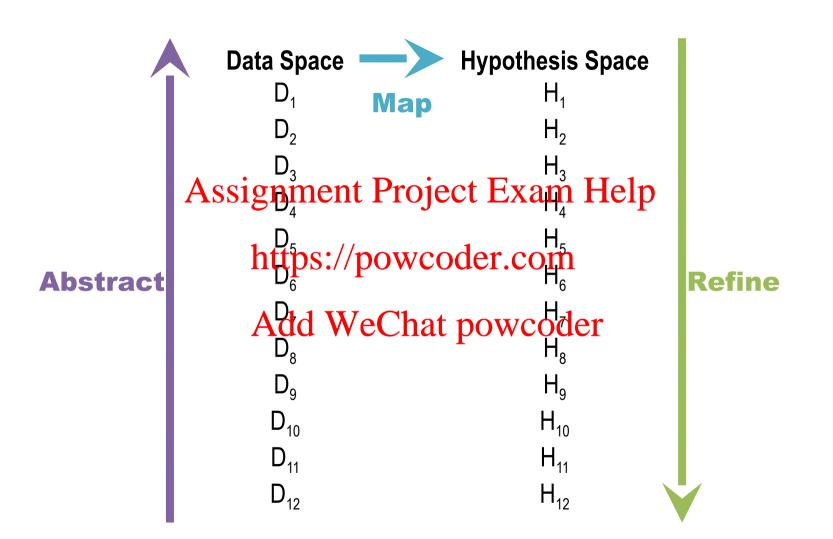
# **Diagnosis:** To determine what is wrong with a malfunctioning device.

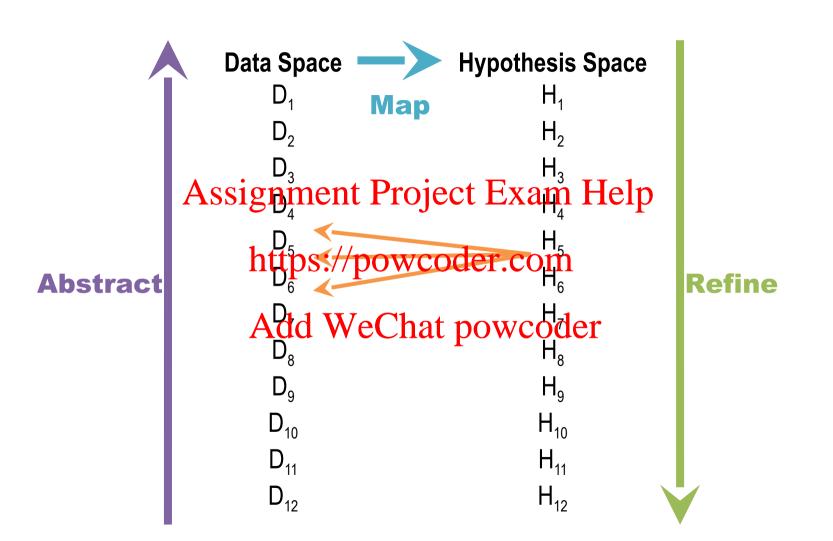




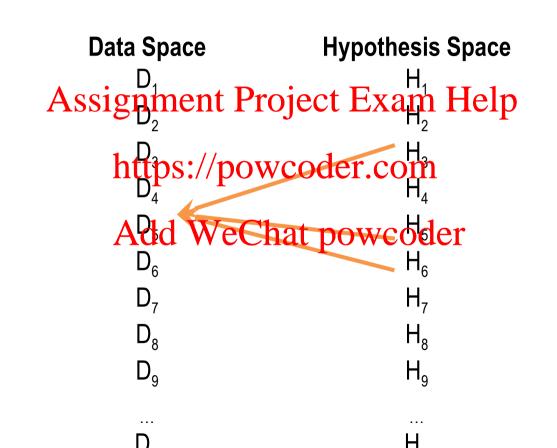




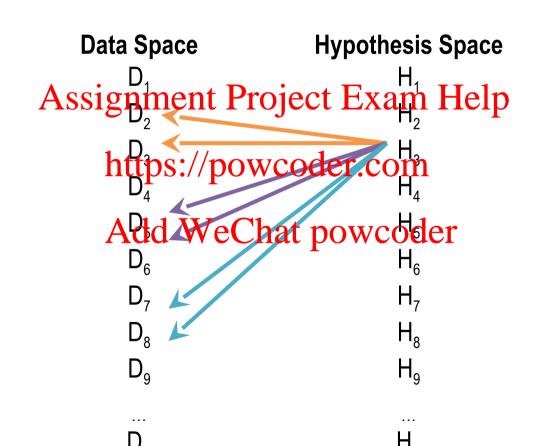




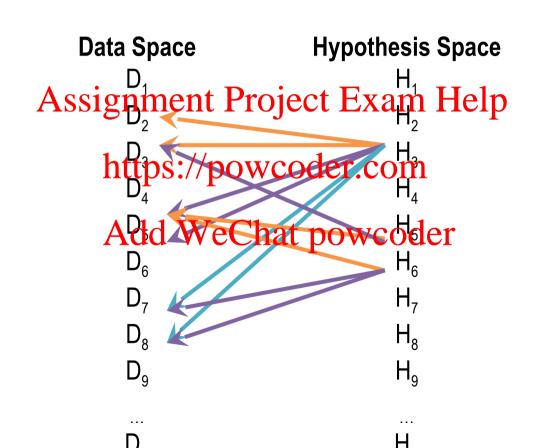
#### Problem #1: One data point, multiple hypotheses.



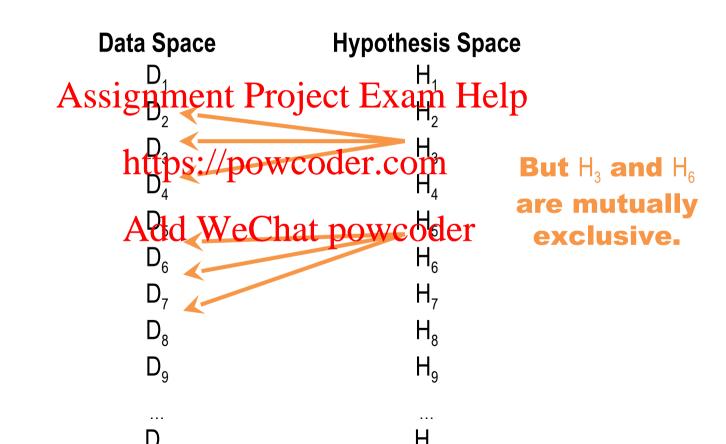
#### Problem #2: One hypothesis, multiple sets of data.



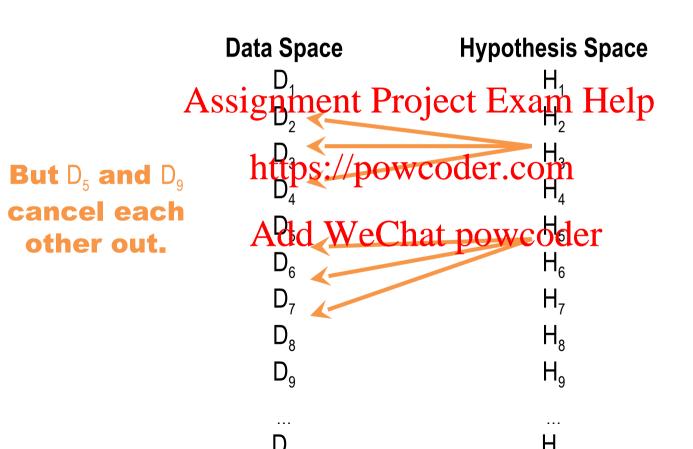
#### **Problem #3:** Multiple hypotheses, multiple sets of data.

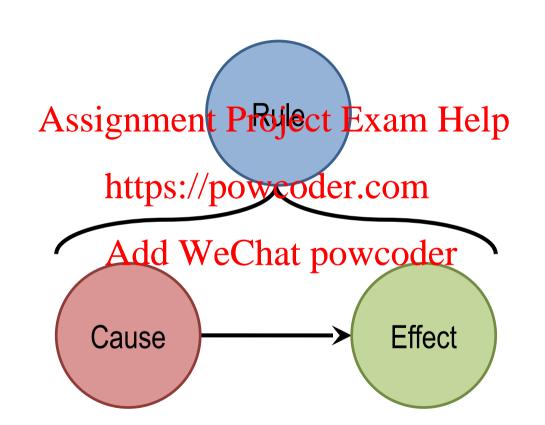


#### **Problem #4:** Mutually exclusive hypotheses.

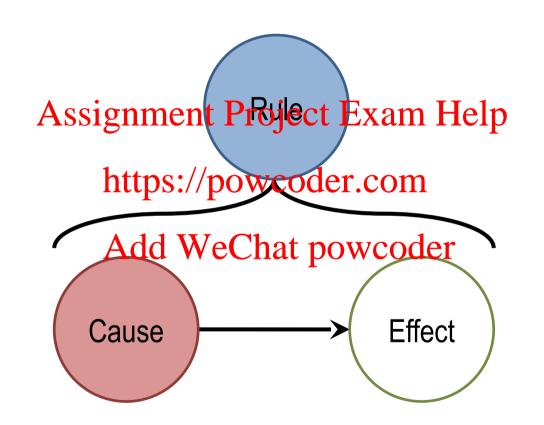


#### **Problem #5:** Interacting data points.

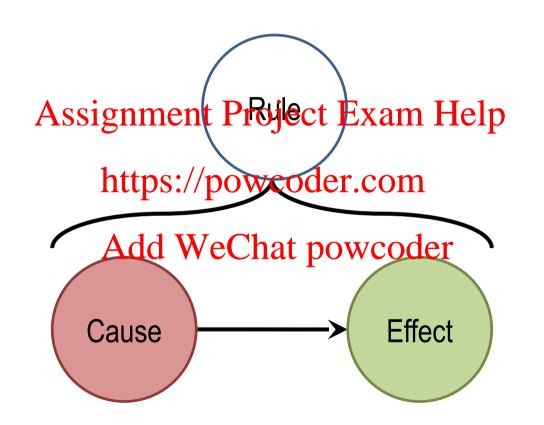




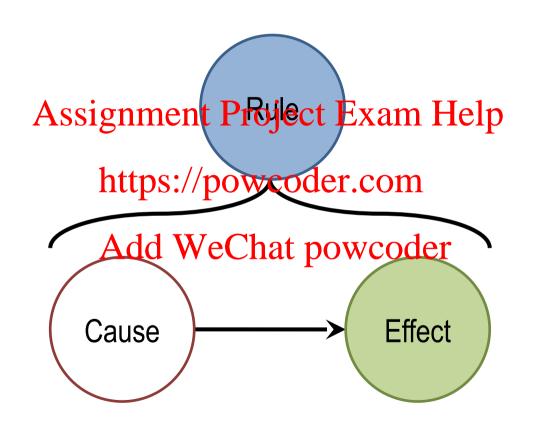
**Deduction:** Given the rule and the cause, deduce the effect.

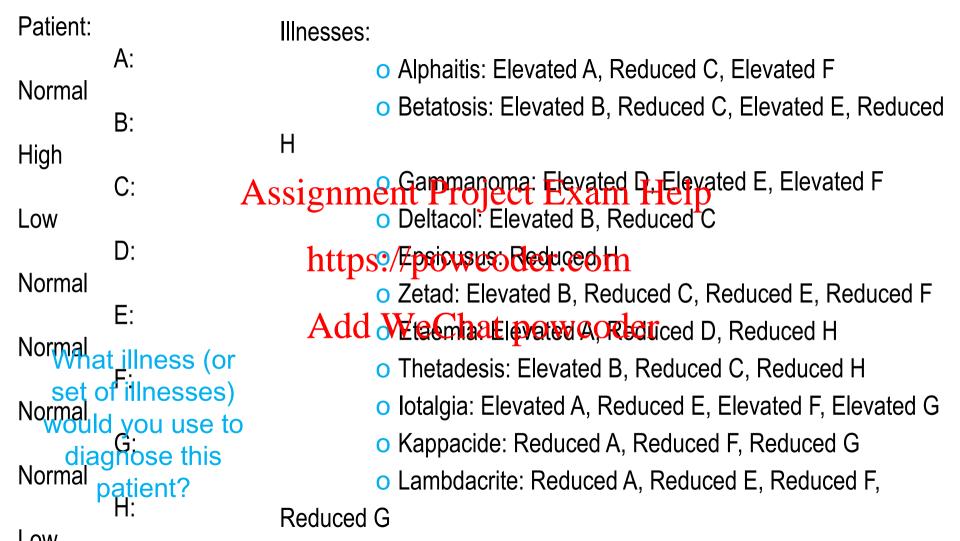


Induction: Given a cause and an effect, induce a rule.

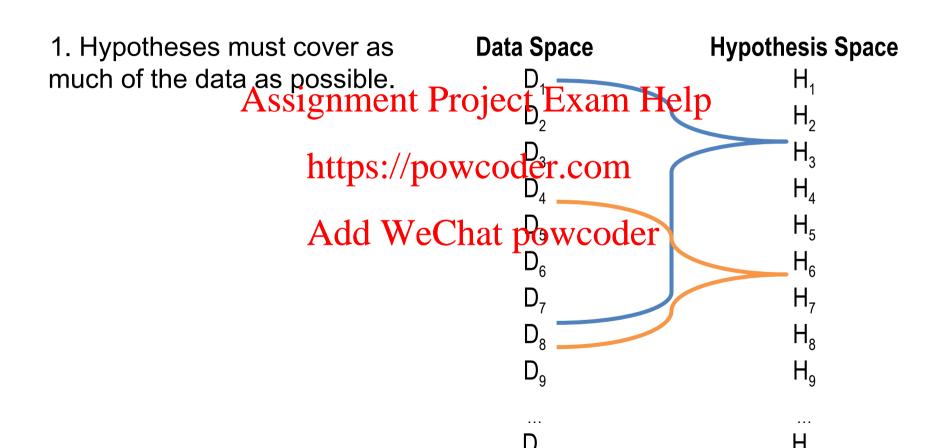


**Abduction:** Given a rule and an effect, abduce a cause.

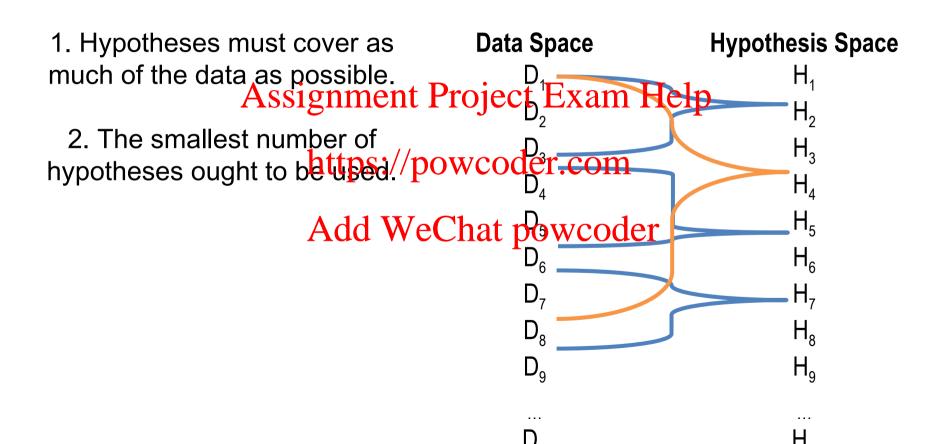




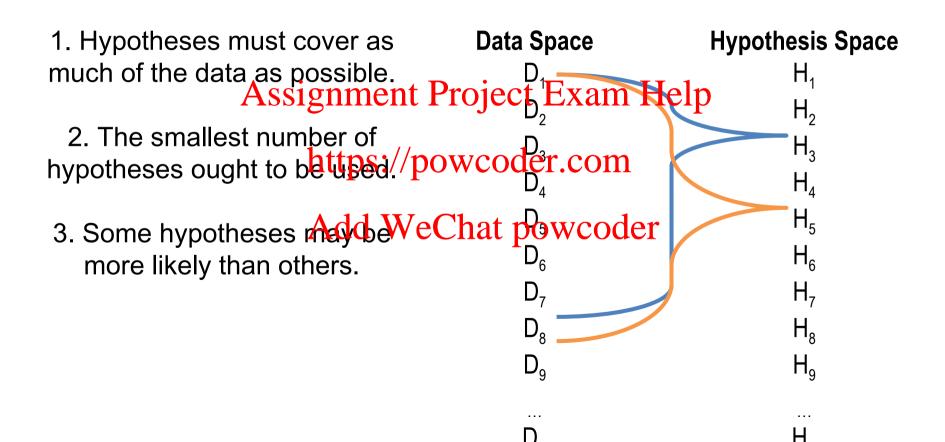
#### **Criteria for Choosing Hypotheses**

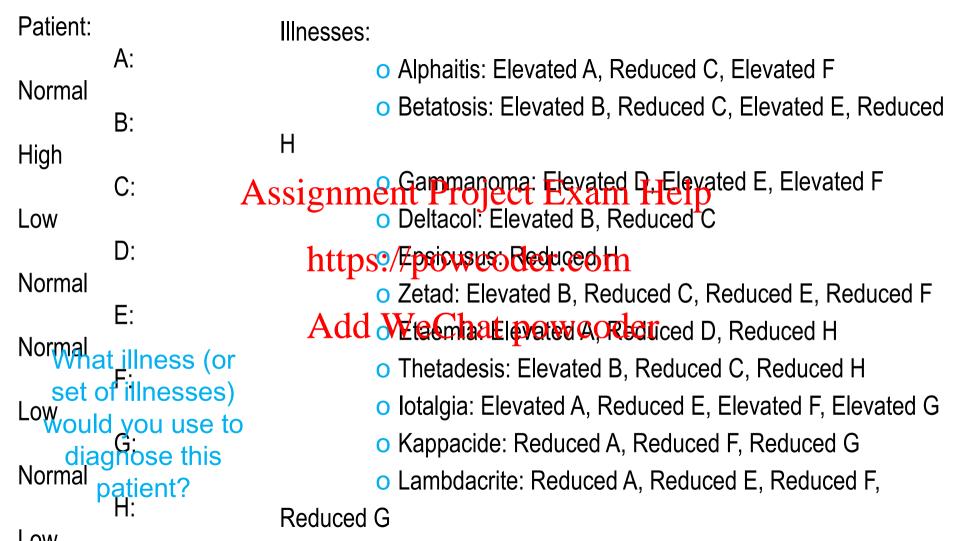


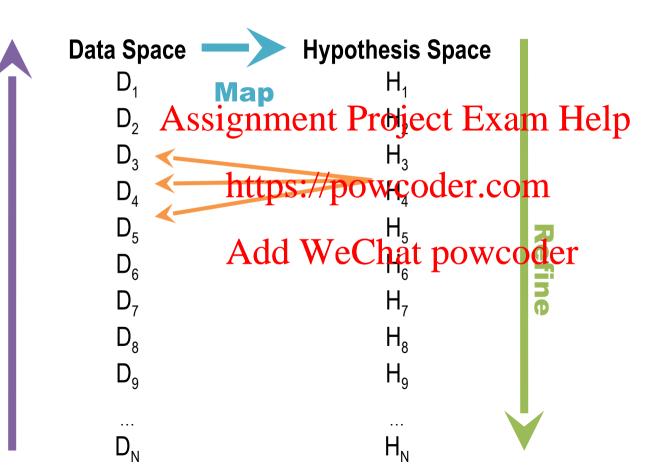
#### **Criteria for Choosing Hypotheses**

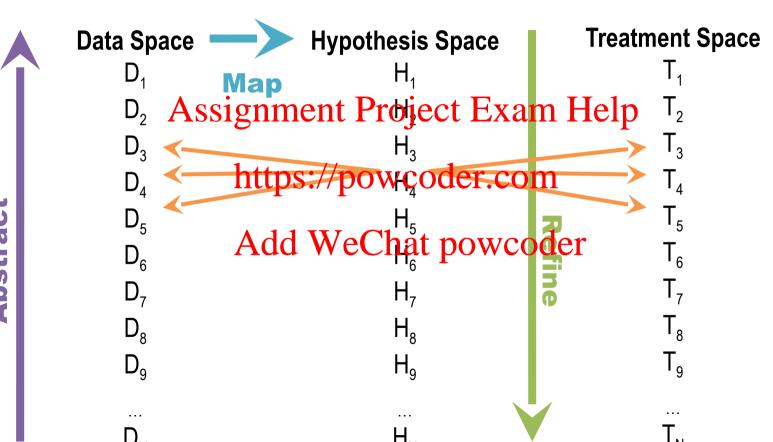


#### **Criteria for Choosing Hypotheses**









Chair Legs count: 4 Chair What constraints size : 10qmass: dictated the design material: 160g metal of this chair? cost : \$4.00 cost Assignment Project Exam Help Seat size : 100q legs material: https://powsoder.commetal cost : \$10.00 arms : Chair Arms Add WeChat powcoder size: 0qmaterial: N/A \$0.00 cost : Chair Back size : 20qmaterial: metal cost : \$2.00

### **Assignment**

How would you use diagnosis to design an agent that could answer Raven's progressive matrices?

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#### To recap...

- Defining diagnosis
- Process of diagnosis Assignment Project Exam Help
- Diagnosis as classification
  <a href="https://powcoder.com">https://powcoder.com</a>
- Diagnosis as abduction