

# Quantum LX Voltage Measurements



**Frick**  
BY JOHNSON CONTROLS

Johnson  
Controls

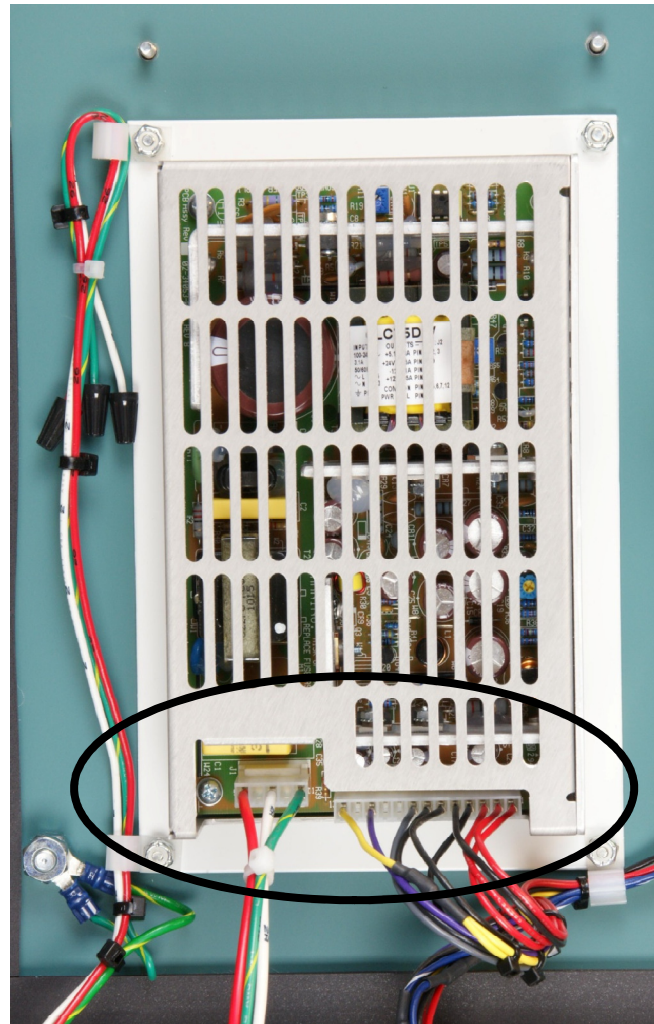
## Quantum LX Voltage Measurement

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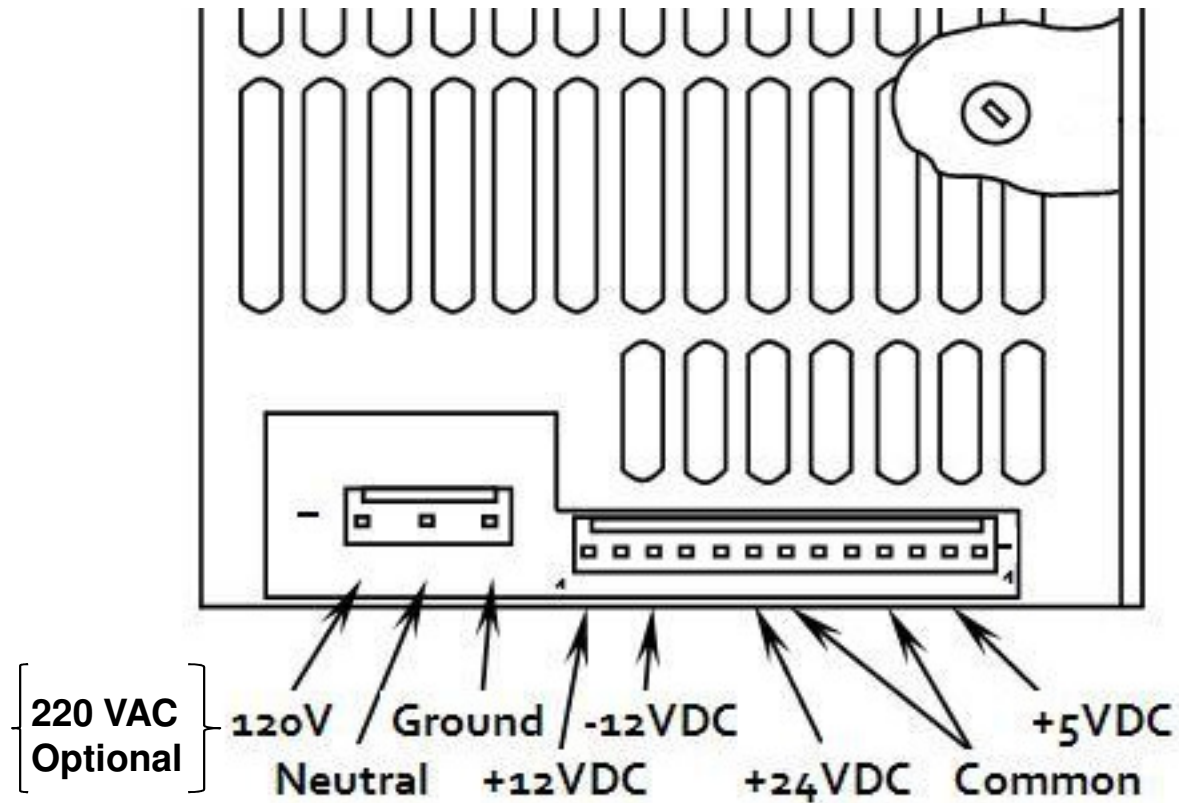
- The Quantum LX control panels DC power supply provides the necessary DC voltages to operate the system.
  - The DC power supply input is 120 VAC (or optional 220 VAC).
  - The DC power supply outputs are +5, +12, -12 and +24 VDC.
  - When measuring these voltages, use a calibrated digital volt meter and check the voltage at the power supply, the processor board and each IO board.
  - The voltages should be within the following ranges.
  - 120: 90 to 125 VAC (or optional 220: 185 to 264 VAC)
  - +5: 5.15 to 5.3 VDC.
  - +12: 11.7 to 12.4 VDC
  - -12: -11.7 to -12.4 VDC
  - +24: 23 to 26 VDC
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## Quantum LX Voltage Measurement – Power Supply

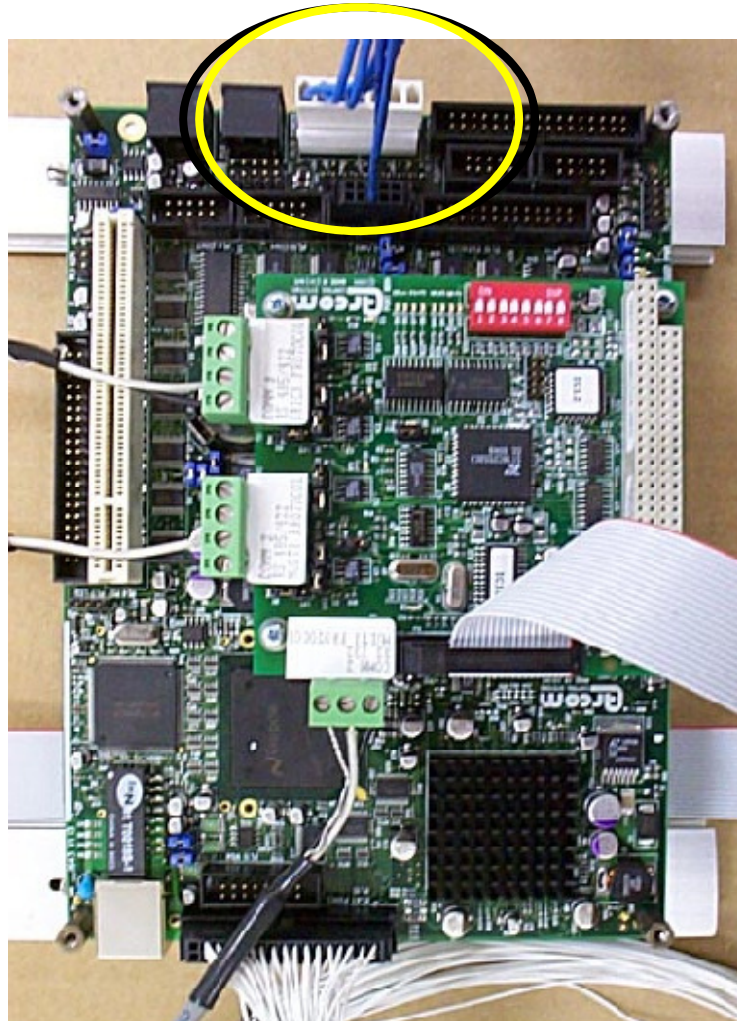


# Quantum LX

## Voltage Measurement – Power Supply



## Quantum LX Voltage Measurement – Processor Board

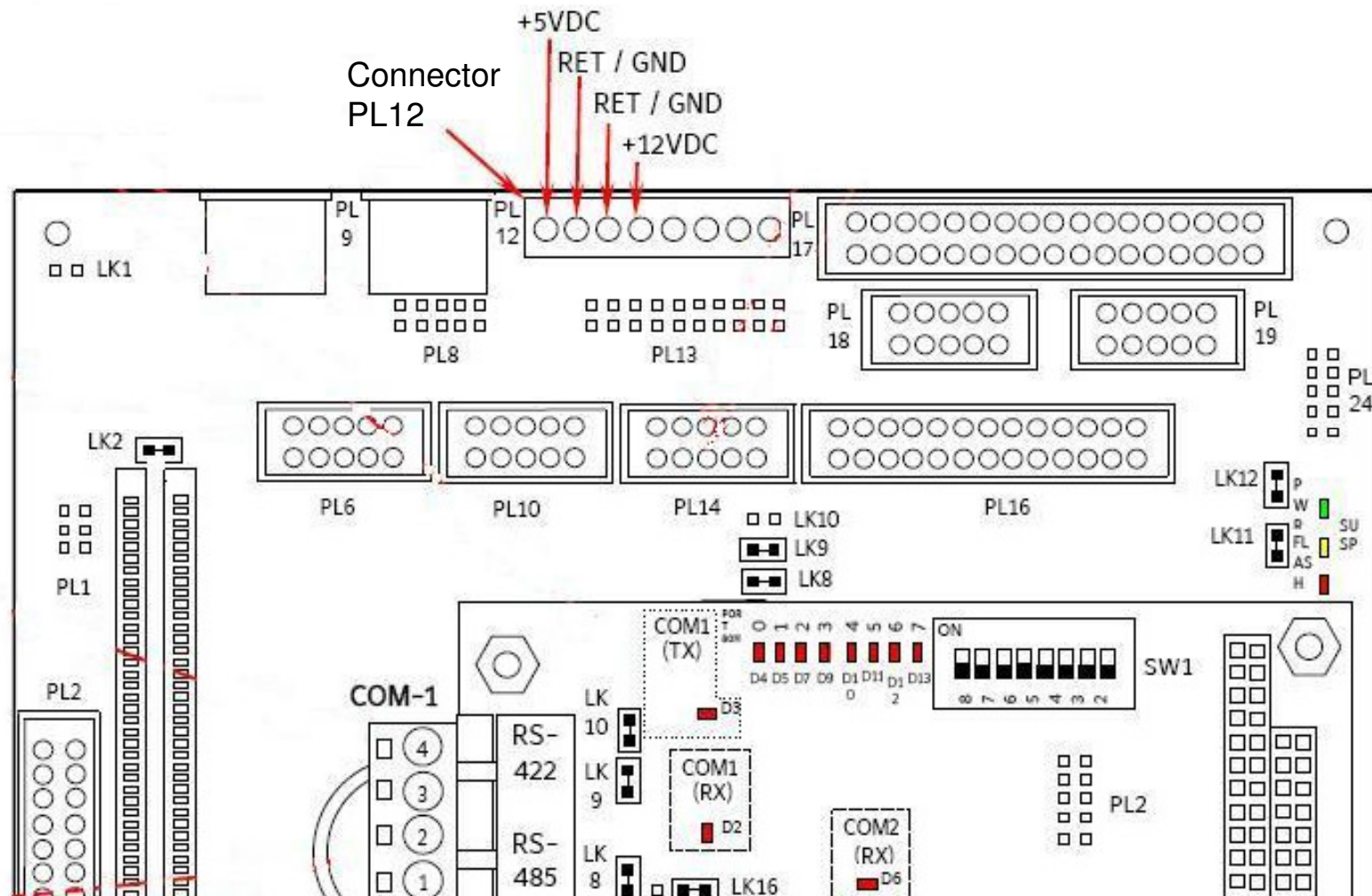


Connector  
PL12



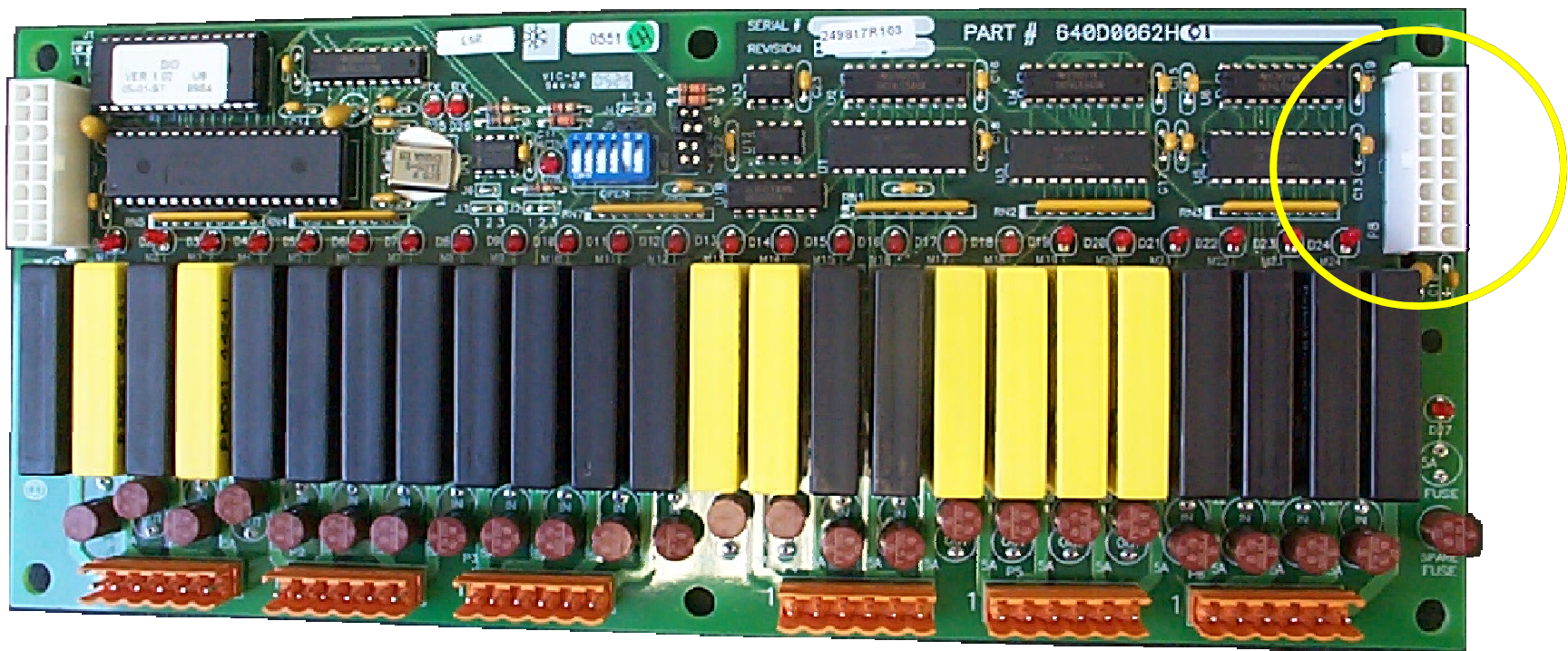
# Quantum LX

## Voltage Measurement – Processor Board



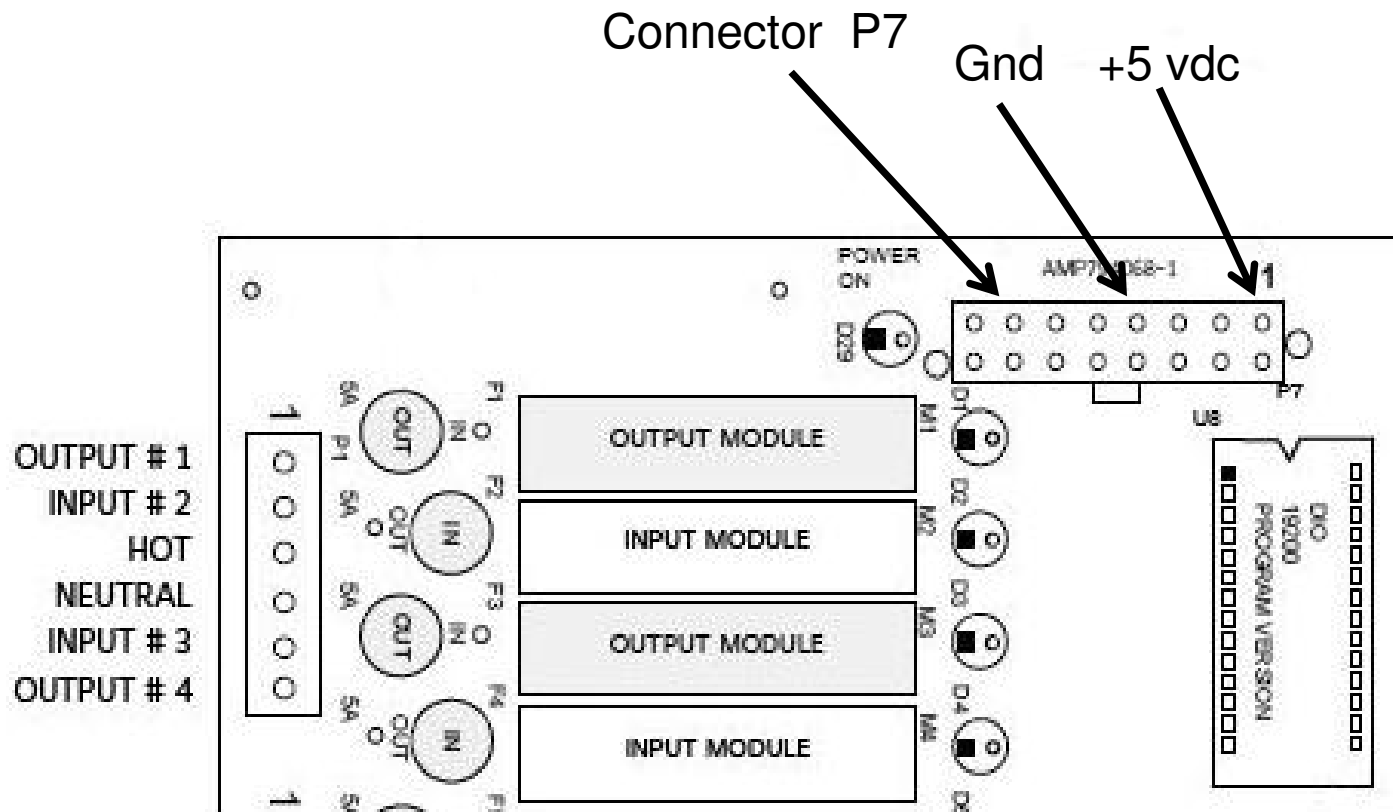
# Quantum LX Voltage Measurement – Digital Board

Connector  
P7



# Quantum LX

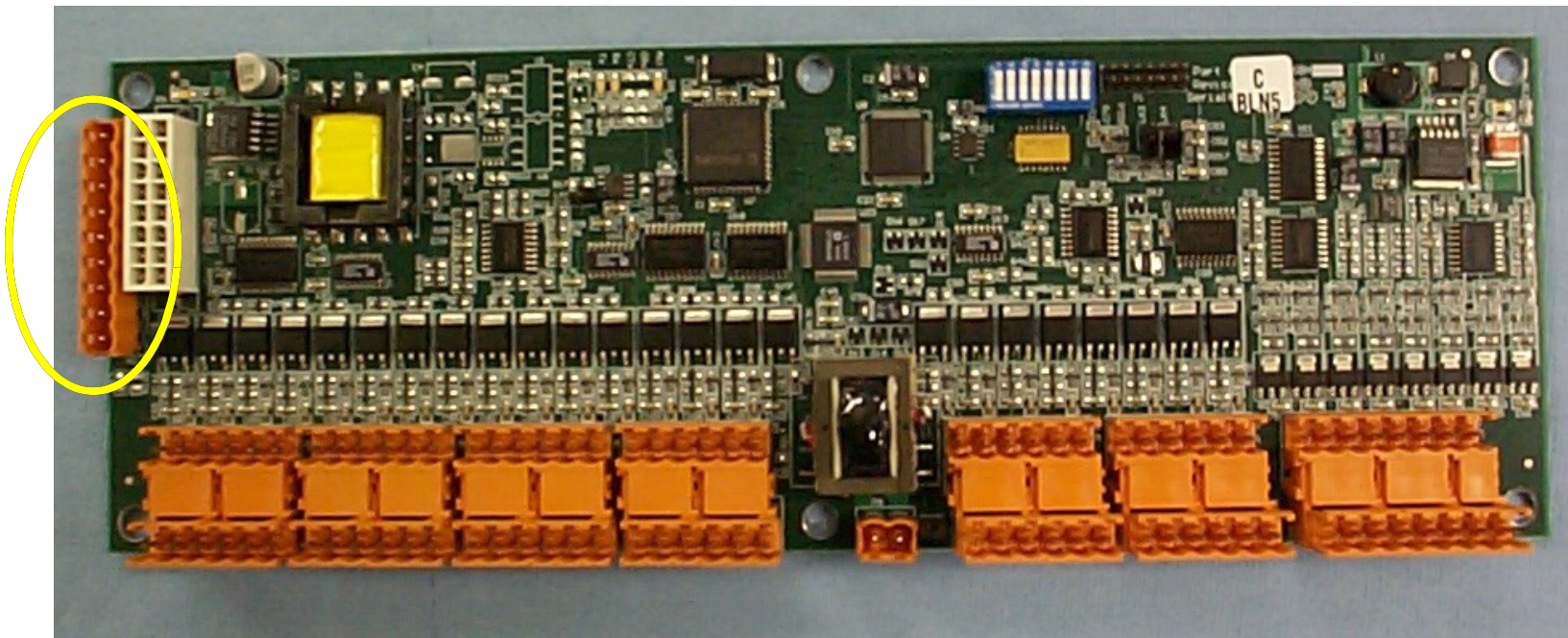
## Voltage Measurement – Digital Board





## Quantum LX Voltage Measurement – Analog Board

Connector  
P2



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