

4 An employee uses a computer that has a Von Neumann architecture to complete many different tasks in their working day.

(a) The computer has a central processing unit (CPU).

Complete the table of components in the CPU and their descriptions.

Component	Description
.....	It sends signals to all the components in the CPU to manage the flow of data through the CPU.
.....	It carries out all the arithmetic and logic operations in the CPU.
cache
program counter (PC)
.....	It controls the number of fetch–decode–execute (FDE) cycles that are performed per second.
.....	It stores data immediately before it is transmitted to RAM and immediately after it is received from RAM.

[6]

(b) The computer is an example of a general purpose computer and **not** an embedded system.

Explain why the computer is **not** an embedded system.

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[2]