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## The Secret Rules of Modern Living: Algorithms

Enjoy this documentary – in English! Please **answer 10** of the follow questions as you watch:

1. What is an algorithm? \_\_\_\_\_

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2. How do smart phones find faces in their field of view?

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3. Explain how the chocolate/chili game works.

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4. Explain Euclid's algorithm, in words and with a diagram.

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5. Why is a PageRank algorithm useful? Give two examples of where it is used.

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6. Where was the first computer software company? \_\_\_\_\_

What year was it? \_\_\_\_\_

7. Explain the "bubble sort" algorithm.

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8. The Merge Sort algorithm consists of dividing and conquering. Explain.

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9. Which is more effective, merge sort or bubble sort? Why?

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10. Give two examples of where the Gale-Shapley algorithm is used.

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11. What are two important criteria for algorithms? \_\_\_\_\_

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12. Give 2 or more examples of when algorithms are not useful.

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13. Explain the traveling salesman problem.

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14. How do air traffic controllers use algorithms?

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15. Explain how the Decision Tree algorithm is used and how it relates to machine learning.

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16. Which part of this documentary was the most interesting to you? Why?

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