Algorithm Learning

The first number is 2. The second is 4. The third 6. What is the next number? The answer is 14. The solution is the following formula: $x^3 - 6x^2 + 13x - 6$. But if you ask anyone this question, everyone will answer 8. But why 8?

Machine Learning is one of the technologies that has made the most impact in recent years. In particular deep learning has shown some remarkable results. However, deep learning models are data-hungry and seemingly simple problems as above are already difficult for them. This is an old and nascent pursuit in AI. However, with the increase of the computation power this area, similar to deep learning, is becoming more and more approachable.

The solution in the first example is “8”, because it is the most simple one. It is much easier to write the following algorithm than any other algorithm that produces the same results.

```python
for i in range(n):
    print(2 * n)
```

Based on this idea, we have started to build a framework where different methods for searching simple algorithms can be implemented.

**Requirements:** Prior experience or a strong interest in programming. Creativity skills are advantageous.

**Interested? Please contact us for more details!**

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1 Examples include AlphaZero, AlphaFold and so on.