

There Is No Largest Prime Number

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There is No Largest Prime Number

The proof uses *reductio ad absurdum*.

Theorem

There is no largest prime number.

1. Suppose p were the largest prime number.

4. But $q + 1$ is greater than 1, thus divisible by some primenumber not in the first p numbers.



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1. Suppose p were the largest prime number.
2. Let q be the product of the first p numbers.

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The proof uses *reductio ad absurdum*.

Theorem

There is no largest prime number.

1. Suppose p were the largest prime number.
2. Let q be the product of the first p numbers.
3. Then $q + 1$ is not divisible by any of them.
4. But $q + 1$ is greater than 1, thus divisible by some primenumber not in the first p numbers.



Only the frame title argument was use

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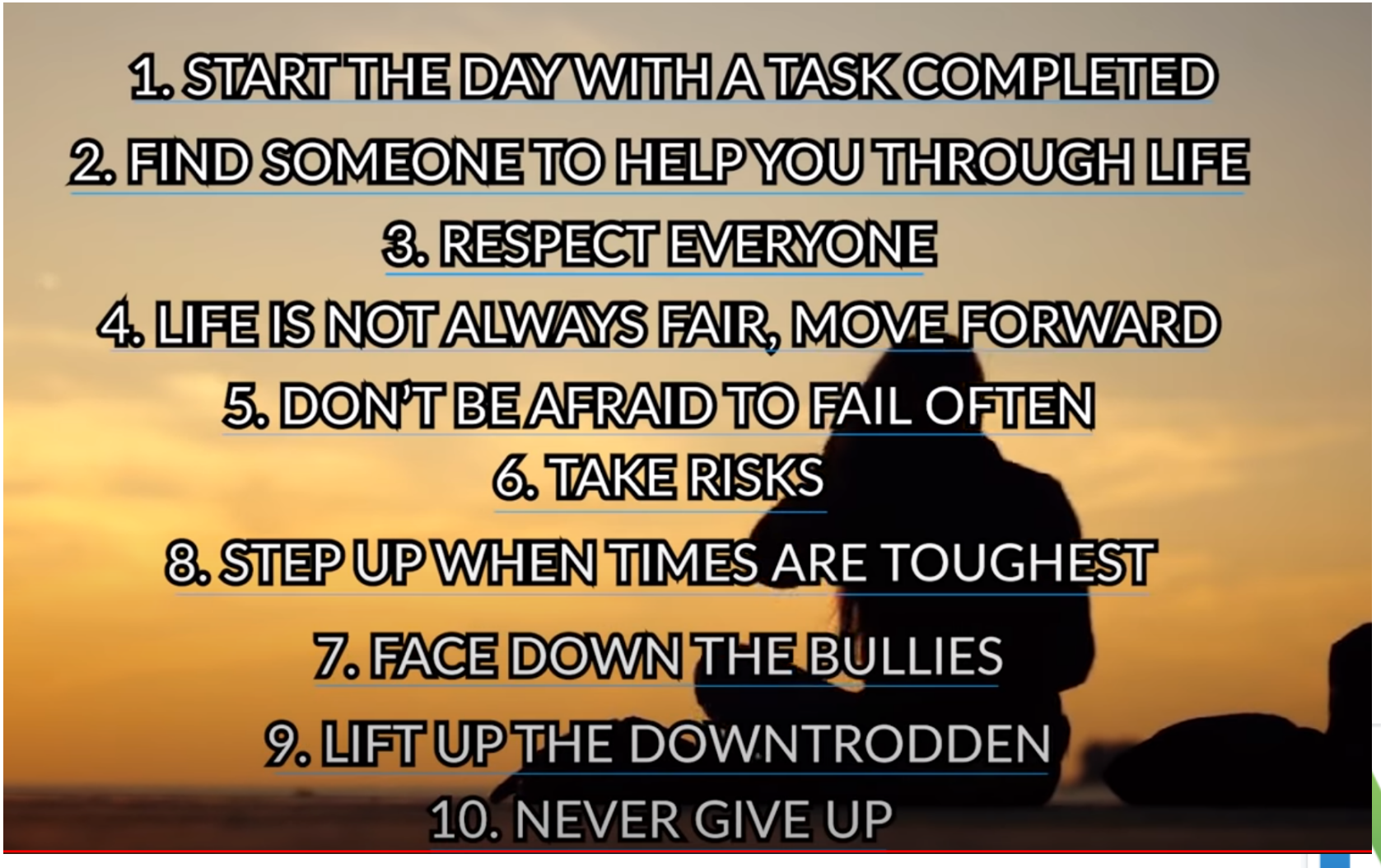
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Admiral McRaven

Motivational Speech



A not so random person

Okay! It's me.



Kool wallpaper

Nice colors and lighting



COVID-19

Thanking Essential Worker

