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Stage 18

Project training

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Objectives

- How to solve the kdump problem?

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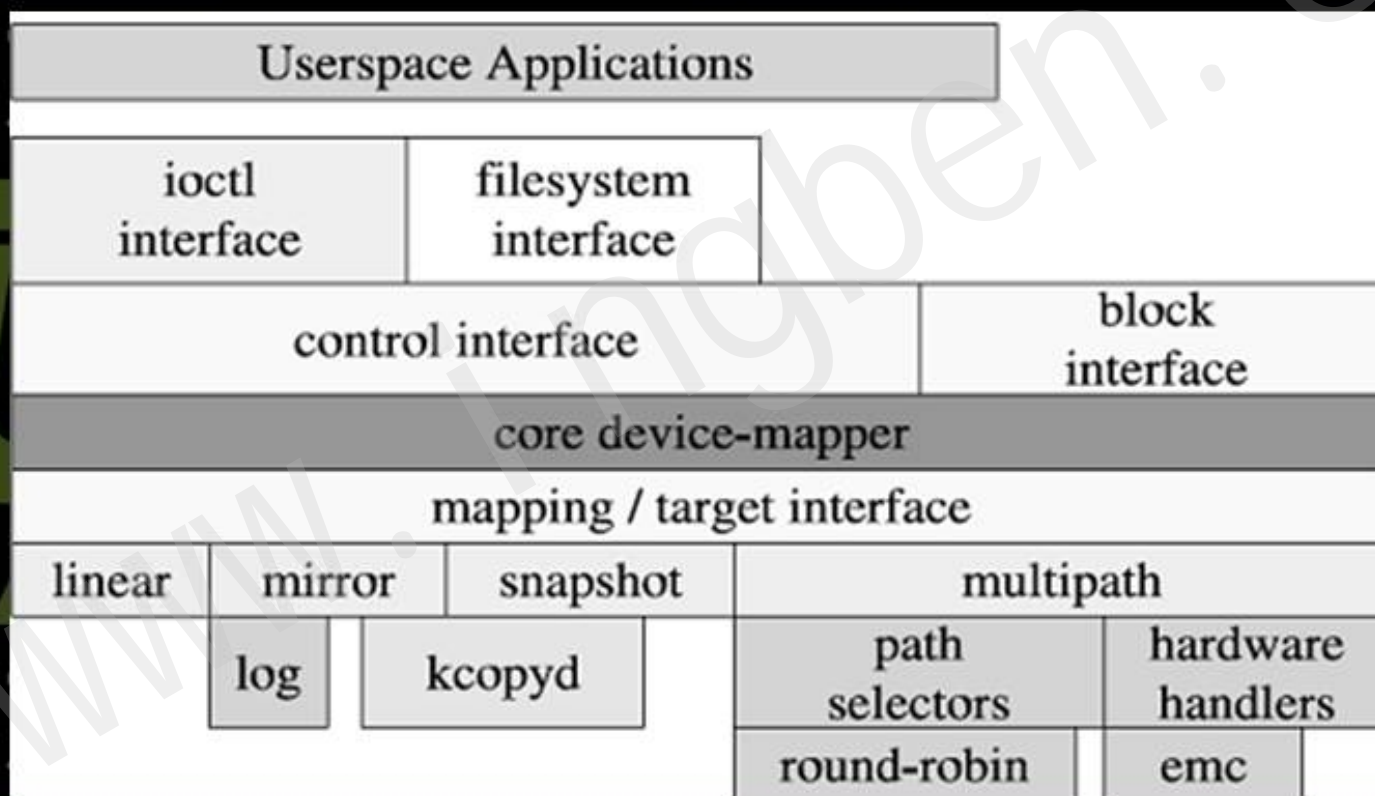
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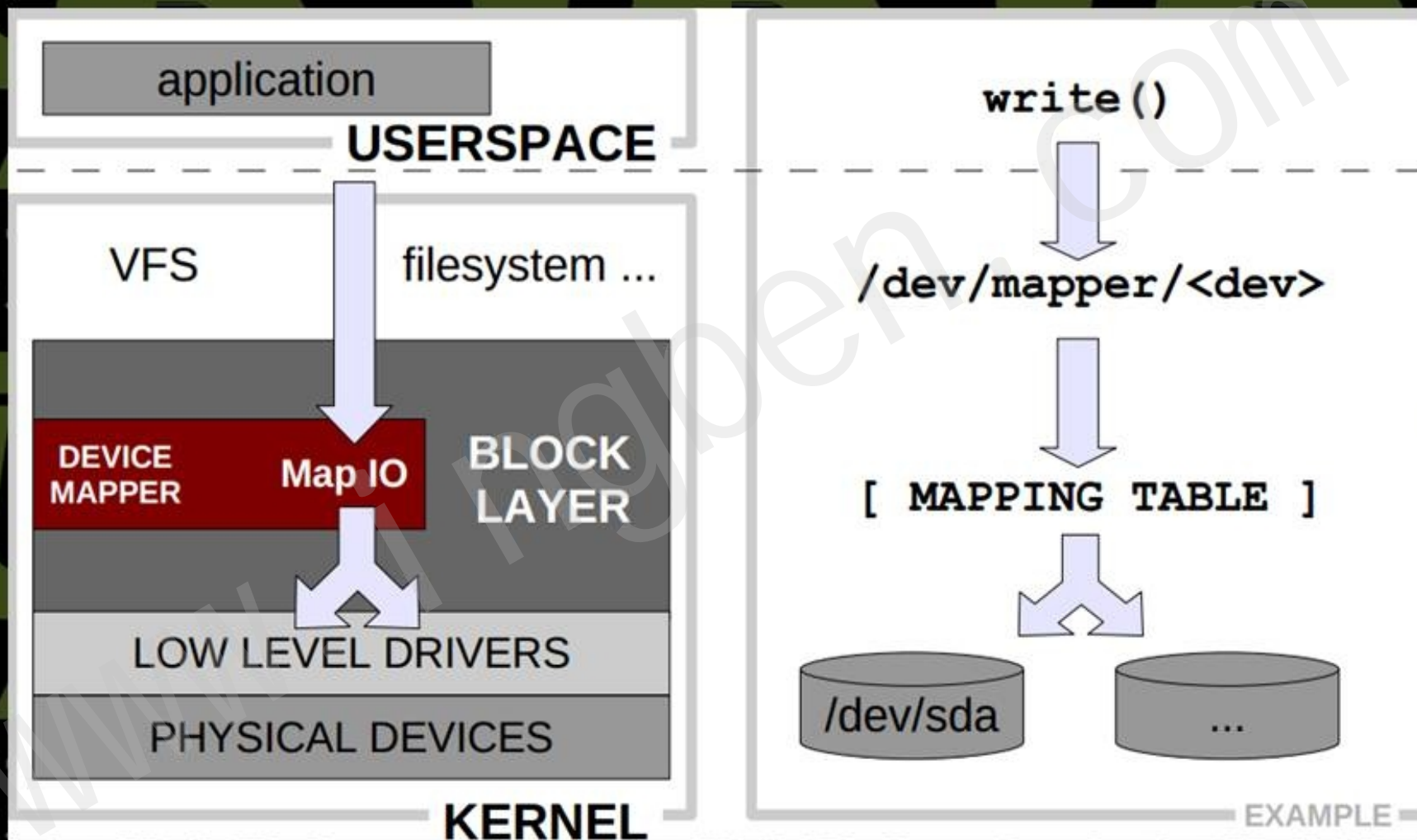
How to solve the kdump problem?

- #crash vmlinux vmcore
 - http://people.redhat.com/anderson/crash_whitewater/
- Device mapper
 - device mapper kernel architecture



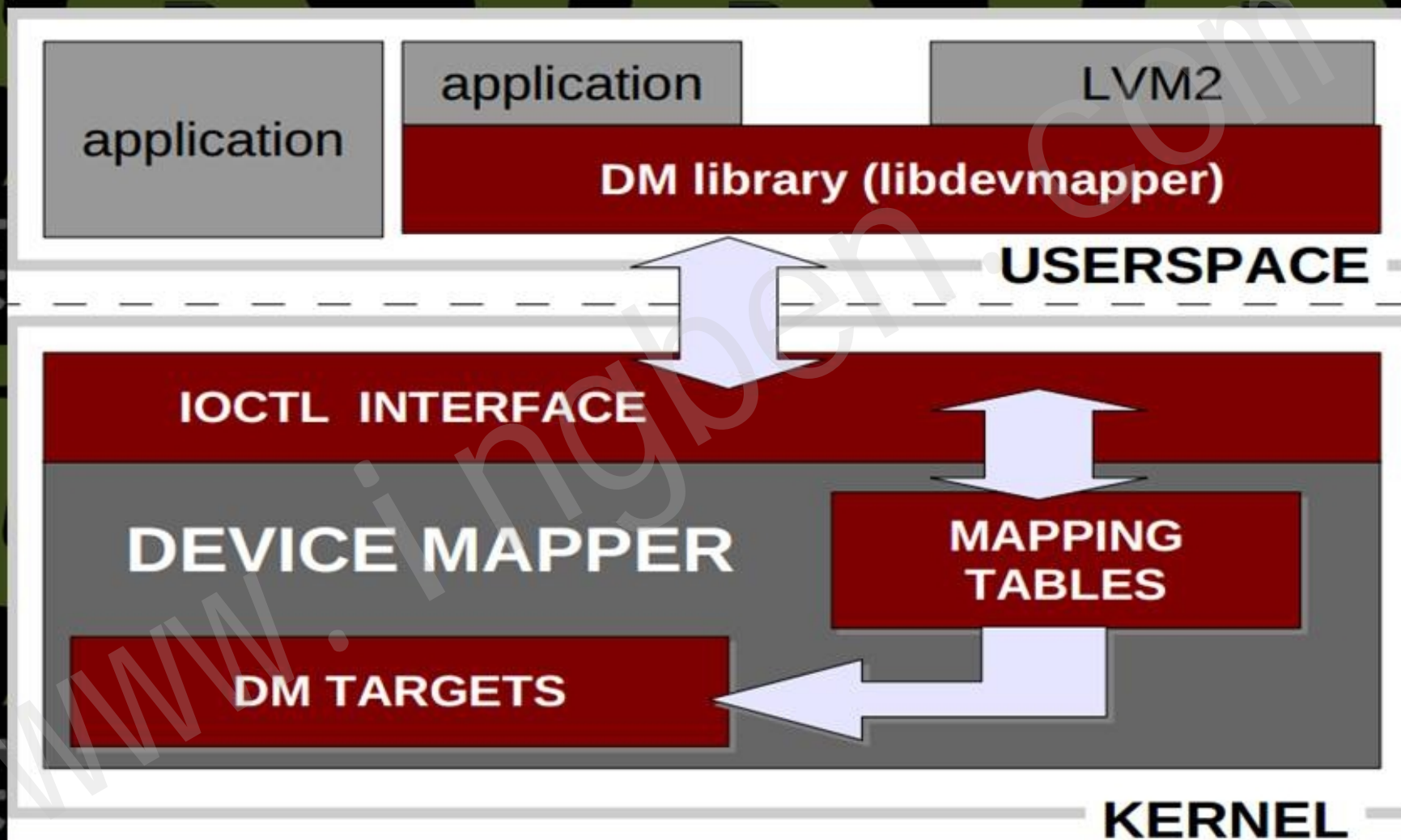
How to solve the kdump problem?

- mapped device access



How to solve the kdump problem?

- control interface



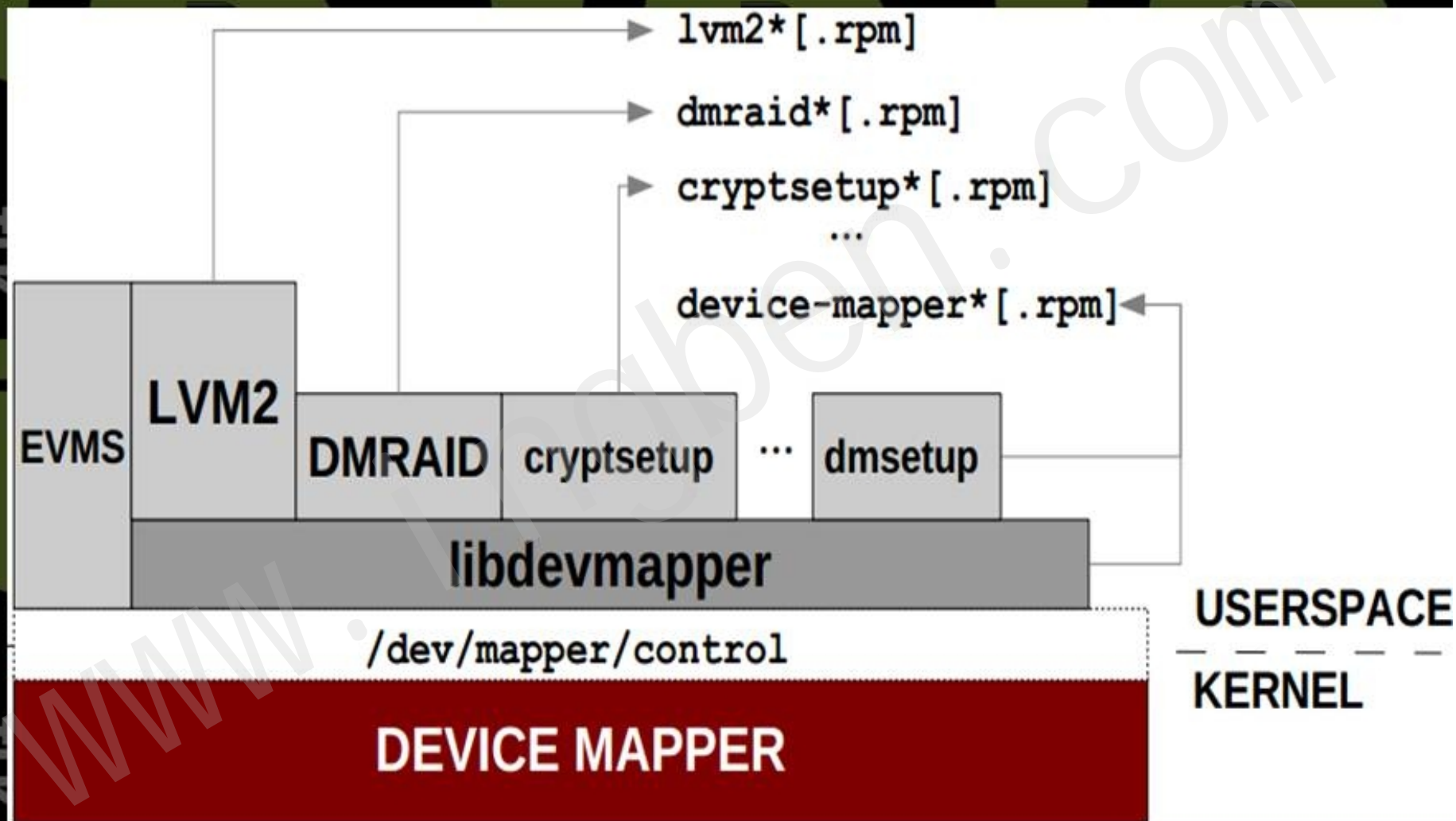
How to solve the kdump problem?

- TARGETS

- **linear** – maps continuous range of another block device
- **striped** (~RAID0) – striping across devices
- **mirror** (~RAID1) – mirroring devices
- **crypt** – encrypt data using CryptoAPI
- **snapshot** – online snapshots of block device
- **multipath** – access to multipath devices (misc. hw handlers)
- **zero,error,delay** – test and special targets
- **truecrypt**
- ...
- **raid45** (~RAID4,5) – raid (with dedicated) parity
- **loop** – stack device over another or over file
- **throttle, rwsplit, flakey** – test targets

How to solve the kdump problem?

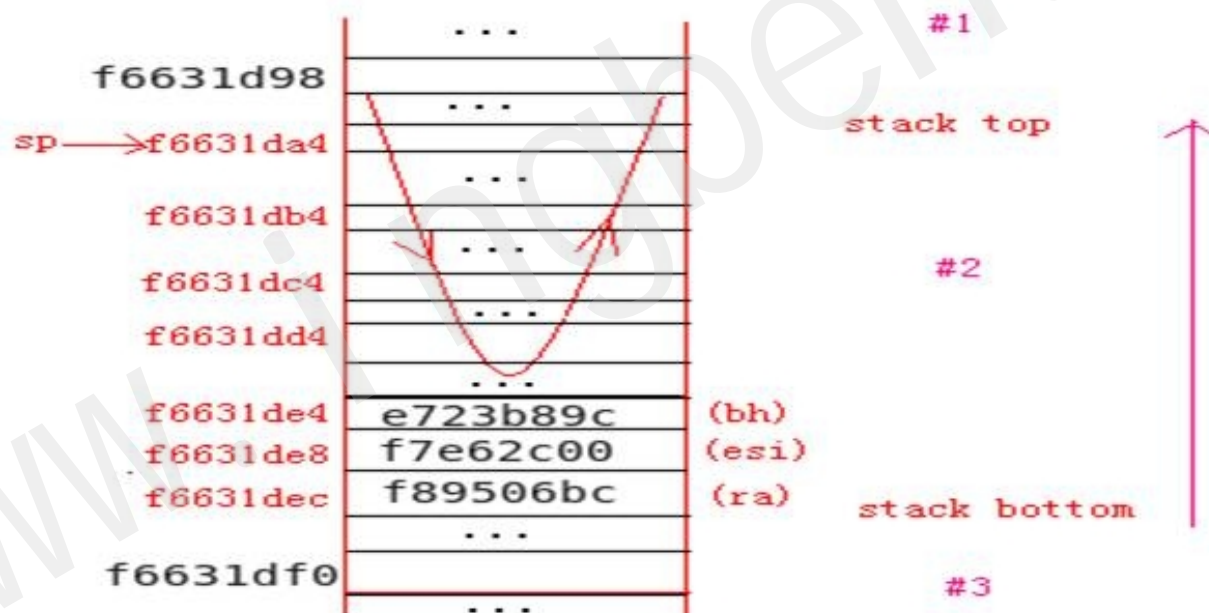
- applications



How to solve the kdump problem?

- Analyse stack

```
#2 [f6631da0] __wait_on_buffer at c015bfc b
[RA: f89506bc SP: f6631da4 FP: f6631dec SIZE: 76]
f6631da4: e723b89c 00000000 f66588b0 c015be78 16Byte
f6631db4: f6631dd4 f6631dd4 00000001 f00d47ac
f6631dc4: e723b89c 00000000 f66588b0 c015be78
f6631dd4: c0445c88 c0445c88 f7e62c00 f6631de8
f6631de4: e723b89c f7e62c00 f89506bc
```





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Thank you!



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