



OBEČNÁ MIKROBIOLOGIE

MIKROSKOPICKÉ VYŠETŘOVACÍ METODY

Petra Lysková



SVĚTELNÁ MIKROSKOPIE



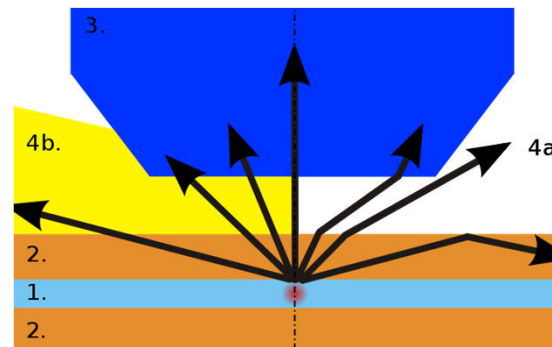
[1]



zvětšení objektivu

[2]

numerická apertura



[3]

$$NA = n * \sin \alpha/2$$



PARAMETRY OKULÁRU



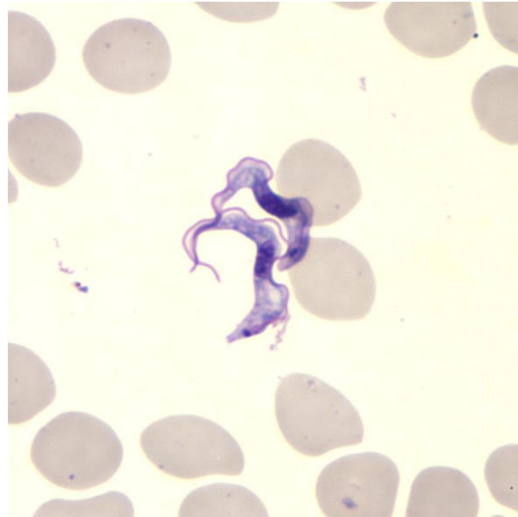
Zvětšení okuláru

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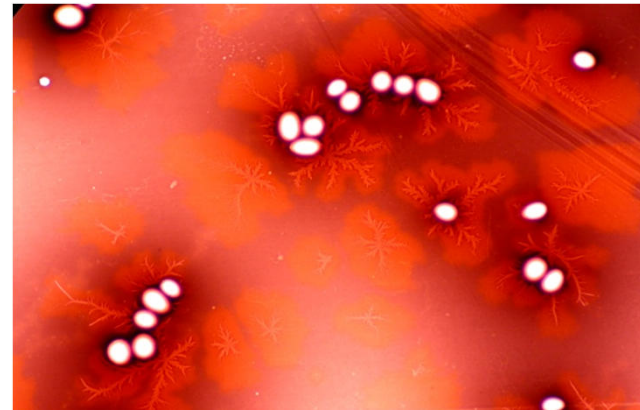
**CELKOVÉ ZVĚTŠENÍ MIKROSKOPU =
ZVĚTŠENÍ OBJEKTIVU * ZVĚTŠENÍ OKULÁRU**



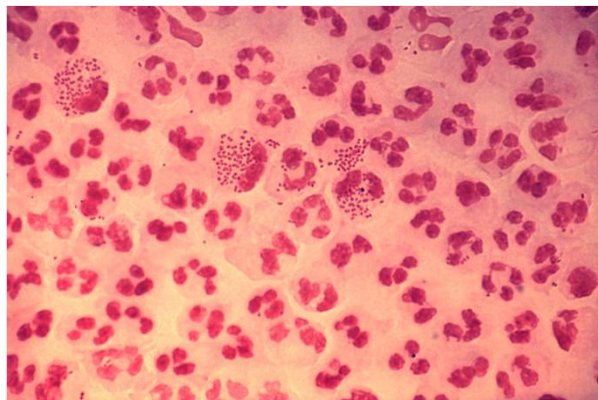
SVĚTELNÁ MIKROSKOPIE



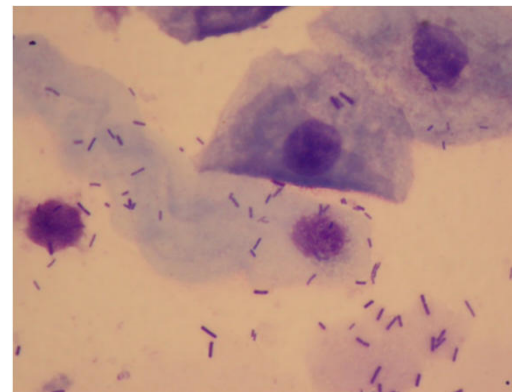
[4]



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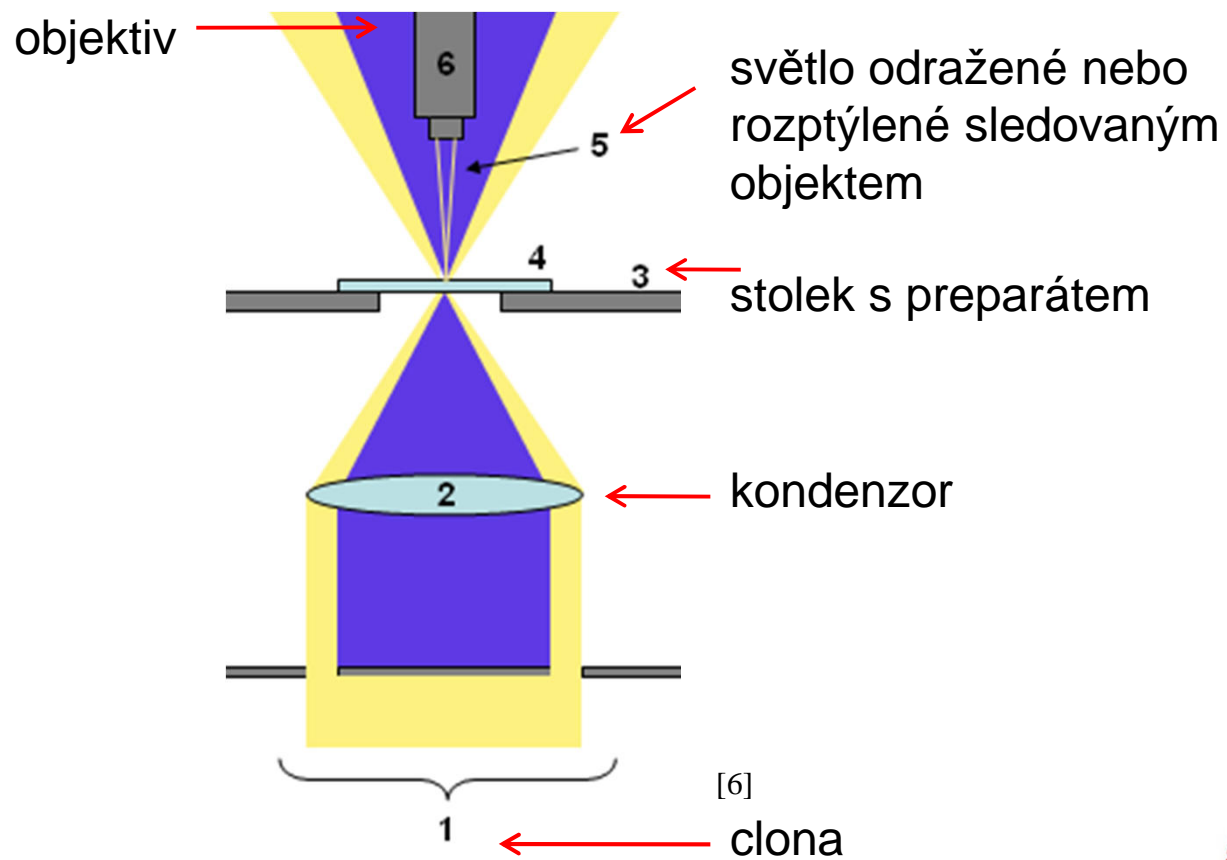
[5]



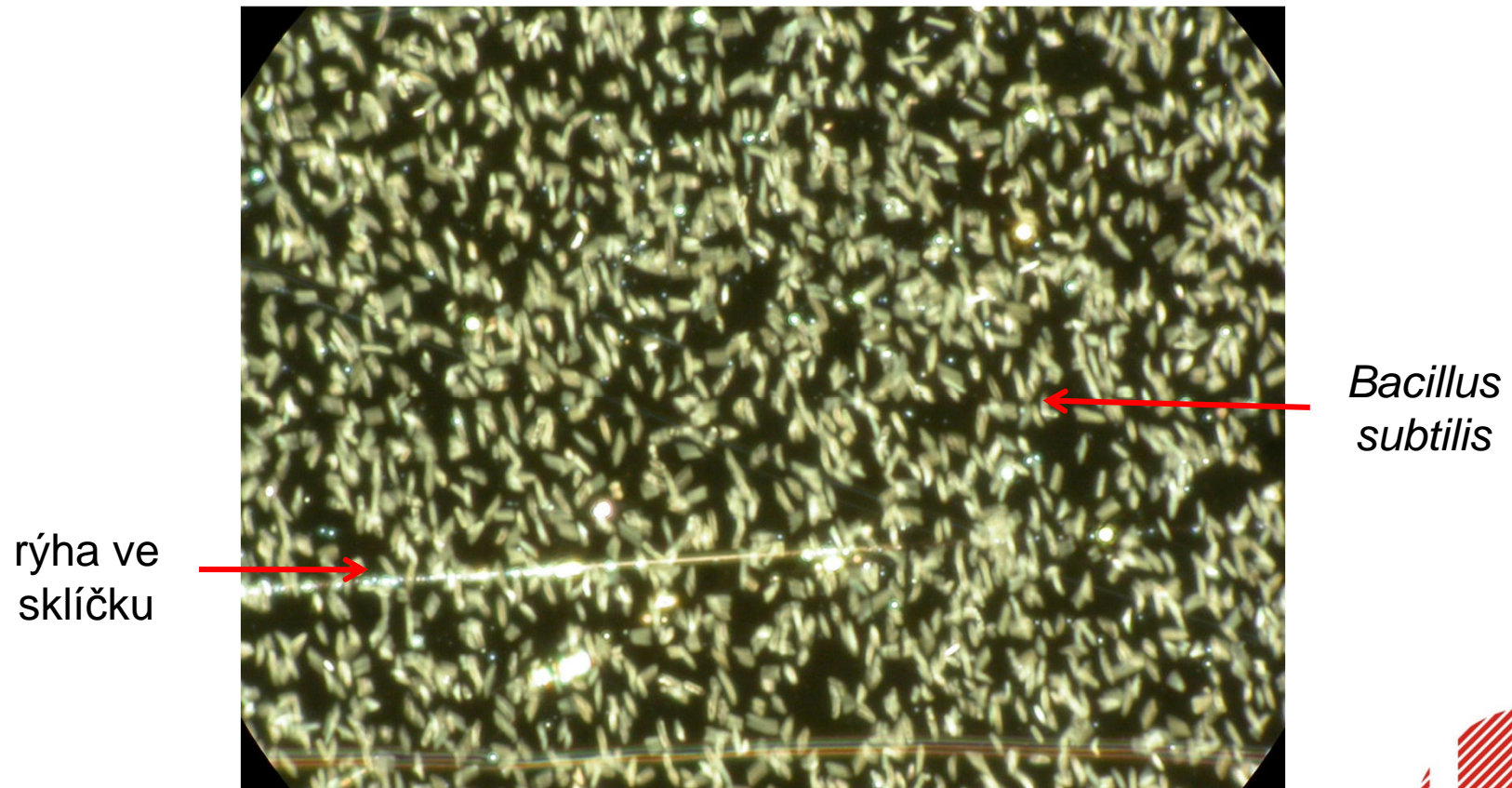
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ZÁSTINOVÁ MIKROSKOPIE



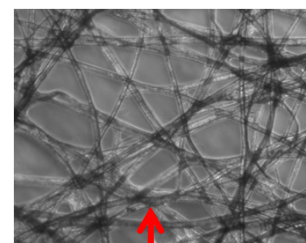
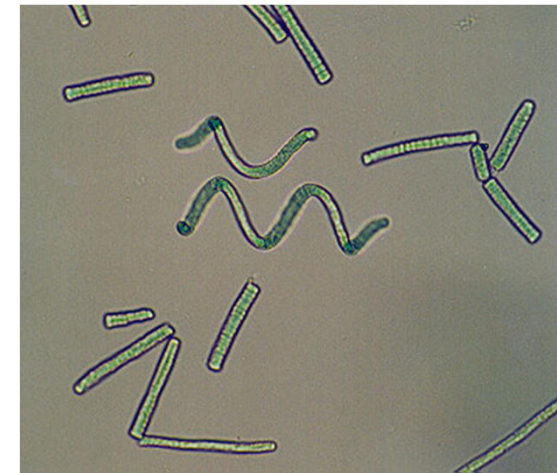
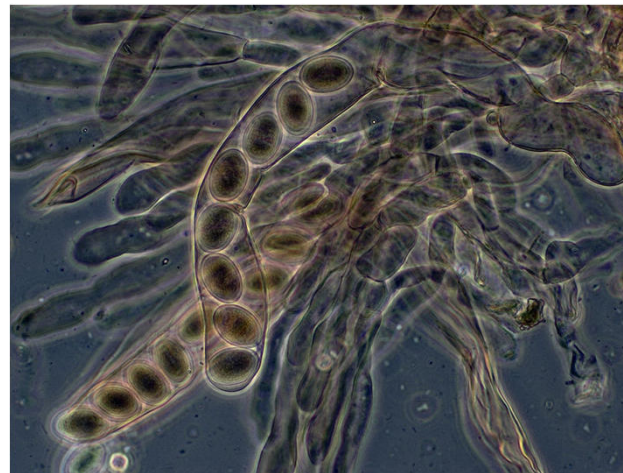
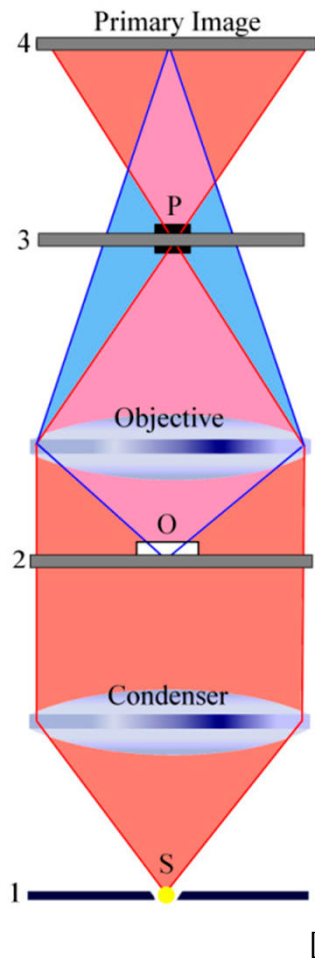
ZÁSTINOVÁ MIKROSKOPIE



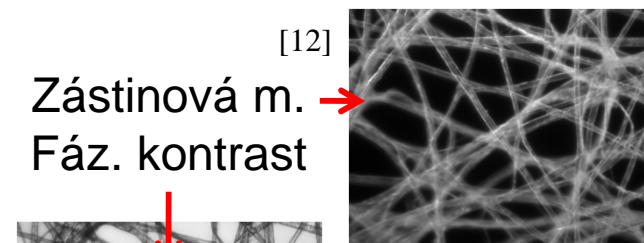
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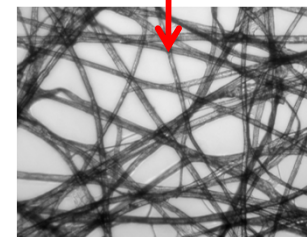
FÁZOVÝ KONTRAST



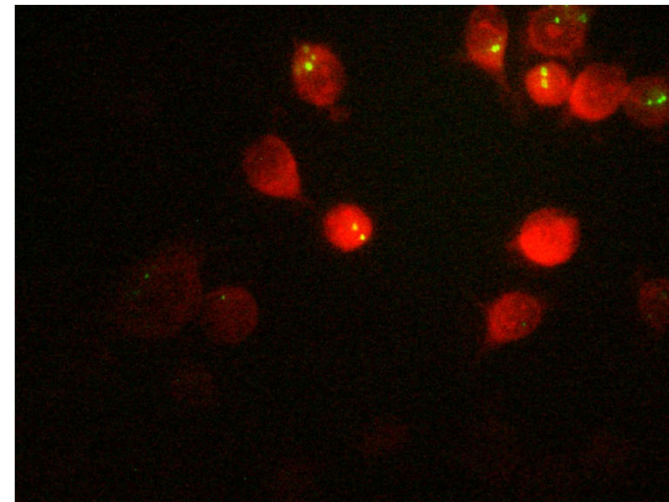
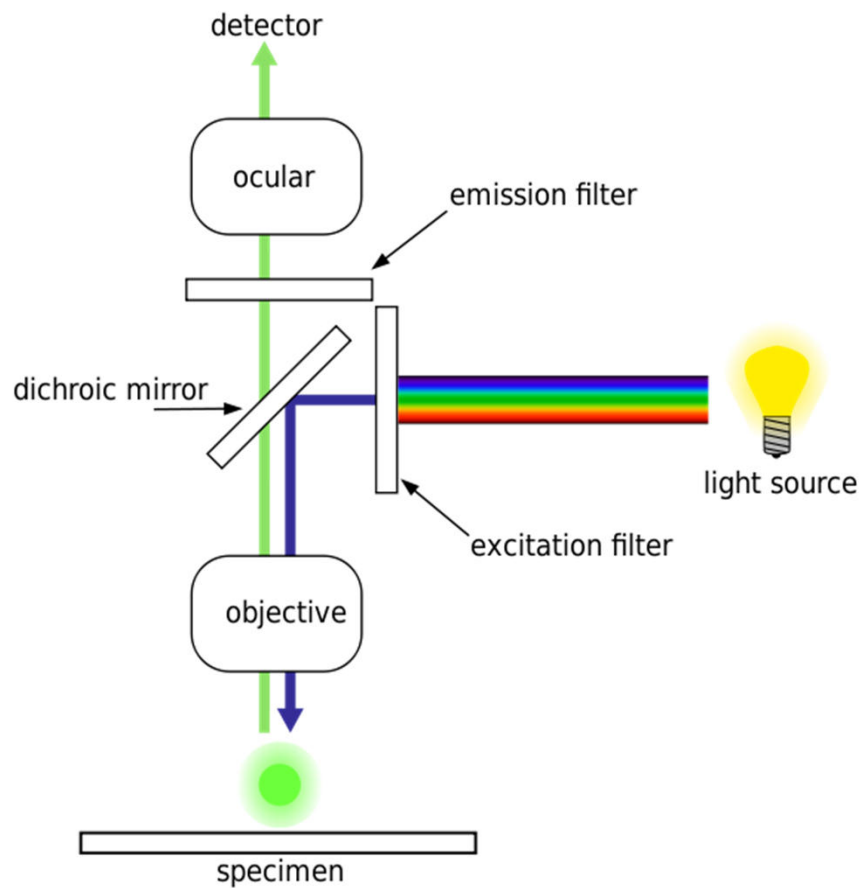
Světlená m.



Zástinová m. →
Fáz. kontrast



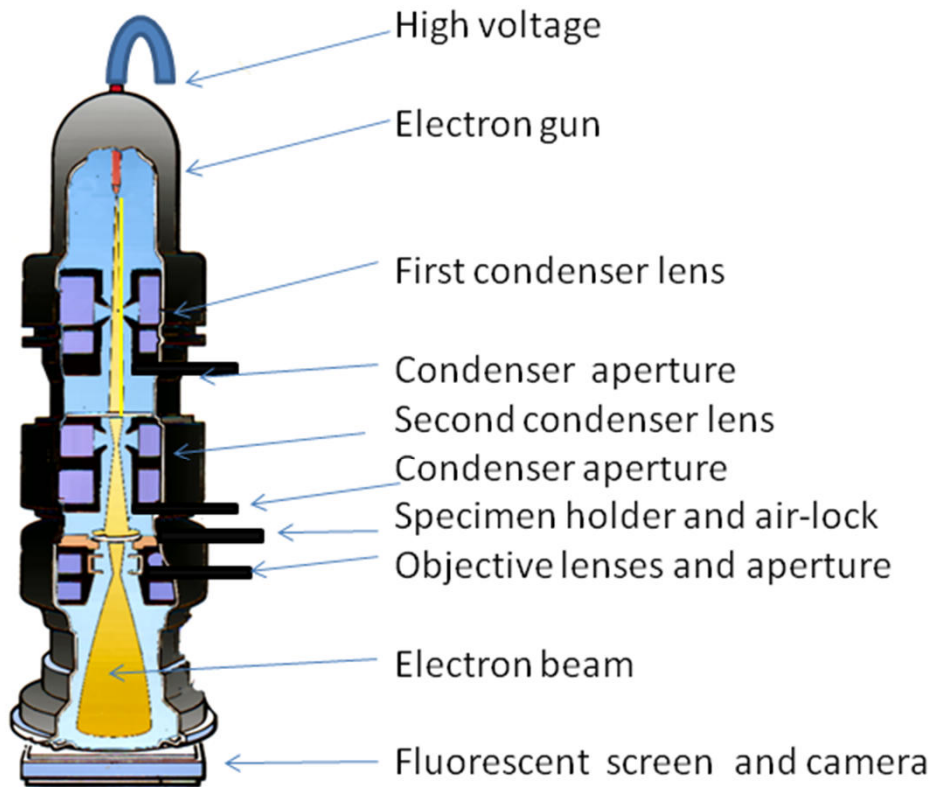
FLUORESCENČNÍ MIKROSKOPIE



Karel Královec, Radek Sleha © UPa

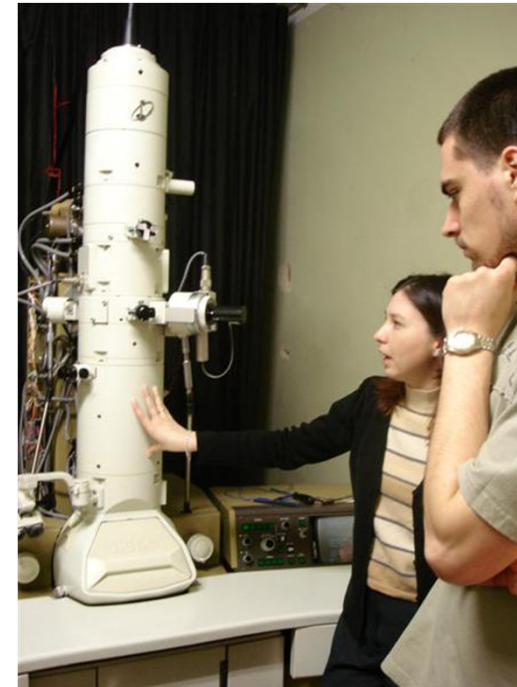


ELEKTRONOVÁ MIKROSKOPIE



Transmission Electron Microscope

[14]



[15]



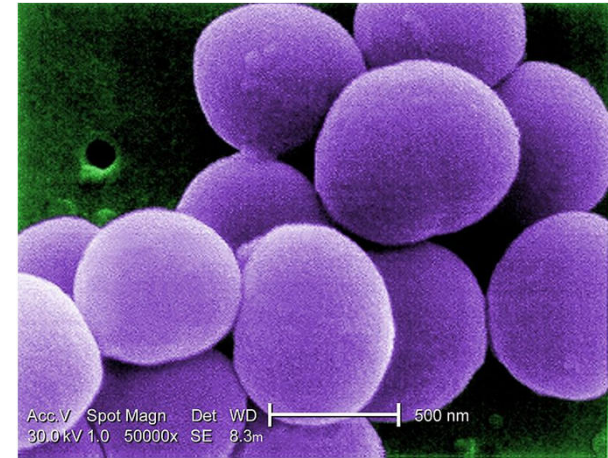
ELEKTRONOVÁ MIKROSKOPIE



[16]



[17]



[18]



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