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Find the largest number which divides 615 and 963 leaving remainder 6 in each case.

Solution:

$615 - 6 = 609$

$963 - 6 = 957$

The largest number is the HCF of 609 and 957.

By Euclid's Division Algorithm

$957 = 609 \times 1 + 348$

$609 = 348 \times 1 + 261$

$348 = 261 \times 1 + 87$

$261 = 87 \times 3 + 0$

HCF = 87

The required number = 87