Hellman key exchange algorithm:

1. q=23, α=5, Xa=6, Xb=15 determine public key and shared key for both users using hellman key exchange algorithm.
2. q=23, α=9, Xa=4, Xb=3 determine public key and shared key for both users using hellman key exchange algorithm.
3. q=13, α=6, Xa=5, Xb=2 determine public key and shared key for both users using hellman key exchange algorithm.
4. q=11, α=2, Xa=8, Xb=6 determine public key and shared key for both users using hellman key exchange algorithm.