

## Lookback option, fixed strike

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$$C = \max\left[\max_{0 < t < T}(S_t) - K, 0\right]$$

$$P = \max\left[K - \min_{0 < t < T}(S_t), 0\right]$$

The fixed strike lookback call has a payout which is the (positive) difference between the highest price of the underlying and a fixed strike.

Similarly, the fixed strike lookback put has a payout of the positive difference between the strike and the minimum of the underlying.

### Symbol list:

$C_T$	Value of the fixed strike lookback call option at expiration
$P_T$	Value of the fixed strike lookback put option at expiration
T	Time of expiration
K	Strike (exercise) price