ANTOPUTMEN U CTPYNTYPEN GANNEX A-3 CEMUNOP 3. MAX_SUM.cpp ACUMIT #include <iostream> 2 #include <vector> 3 #include <climits>

$$T(n) = 1 + 1 + \sum_{i=0}^{n-k} (i+k+2) + 2 = \frac{1}{2} (n^2 + 4n - k^2) + 4 \implies O(n^2)$$
Оптимизированний алгоритм с сложно стою $O(n)$:

max_sum = std::max(max_sum, current_sum);

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#Include <ustreem>
#include <ust
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curr += arr[i] - arr[i - k];
max_sum = std::max(a:max_sum, b:curr);

return max_sum;

$$T(n) = 1+1+k+1+6(n-k) = 6n-5k+3 = O(n)$$

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\frac{3a\tau pa\tau \mu octs}{1}:

\frac{1}{1}

\frac
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$$= \frac{(n+k+4)(h-k)}{2} = \frac{1}{2}(n^2+4n-k^2)$$

6(n-k)