$\Theta(n)$
$\mathcal{O}(n)$
$\mathcal{O}(n/B^{2/3} + sort(n) \cdot \log(B))$
$\Omega(n/B^{1/2} + sort(n))$
$G = (V, E)$
$scan(N) = \Theta(N/B)$
$sort(N) = \Theta((N/B) \cdot \log_{M/B}(N/B))$
$scan(N) < sort(N) \ll N$
$L(t) := A'(t) \backslash \{L(t-1) \cup L(t-2)\}$
$\mathcal{O}(n + m)$
$\Theta(n + m/B)$
$\mathcal{O}(\sum_t L(t) + \sum_t sort(A(t))) = \mathcal{O}(n + sort(n + m))$
$\mathcal{O}(sort(n + m))$
$\max\{1, \sqrt{\frac{n \cdot B}{n+m}}\}$
$1 < \mu < \mathcal{O}(\sqrt{B})$
$\Omega(n/\mu)$
$\Omega(\mu)$
$\mathbf{P}[r(v) = 0] = \mathbf{P}[r(v) = 1] = \frac{1}{2}$
$\Delta d_i(v) = |d_{i-1}(v) - d_i(v)|$