

Find first element

Initial dichotomy

Find next element

Accelerate  
(initial step:  $s_0$ )

Dichotomize

Element exists ?

Yes

No

Add new element to X,  
Update estimated  
distance parameter  $s_0$

No

$|X| \leq \log_2(n) ?$

Yes

Does not  
satisfy P

Test current subset X

Satisfies P

Stop,  
Return X