Sequence of Page References	Window Size, ∆			
	2	3	4	5
24	24	24	24	24
15	24 15	24 15	24 15	24 15
18	15 18	24 15 18	24 15 18	24 15 18
23	18 23	15 18 23	24 15 18 23	24 15 18 23
24	23 24	18 23 24	•	•
17	24 17	23 24 17	18 23 24 17	15 18 23 24 17
18	17 18	24 17 18	•	18 23 24 17
24	18 24	•	24 17 18	•
18	•	18 24	•	24 17 18
17	18 17	24 18 17	•	•
17	17	18 17	•	•
15	17 15	17 15	18 17 15	24 18 17 15
24	15 24	17 15 24	17 15 24	•
17	24 17	•	•	17 15 24
24	•	24 17	•	•
18	24 18	17 24 18	17 24 18	15 17 24 18

Figure 8.19 Working Set of Process as Defined by Window Size

```
Initial value of D_i is 0
After an operation, the value of D_i is updated as follows
(I) if the next operation is a block allocate request:
     if there is any free block, select one to allocate
        if the selected block is locally free
                then D_i := D_i + 2
                else D_i := D_i + 1
     otherwise
        first get two blocks by splitting a larger one into two (recursive operation)
        allocate one and mark the other locally free
        D<sub>i</sub> remains unchanged (but D may change for other block sizes because of the
                        recursive call)
(II) if the next operation is a block free request
     Case D_i \ge 2
        mark it locally free and free it locally
        D_i := D_i - 2
      Case D_i = 1
        mark it globally free and free it globally; coalesce if possible
        D_i := 0
     Case D_i = 0
        mark it globally free and free it globally; coalesce if possible
        select one locally free block of size 2i and free it globally; coalesce if possible
        D_i := 0
```

Figure 8.24 Lazy Buddy System Algorithm