

(1). [5 points]

(a). Assume that we execute Melkman's convex hull algorithm on the vertices of the chain shown below in the order  $v_0, v_1, v_2, v_3$ , etc. (In the figure, I label  $v_i$  with "i".) Show the deque, indicating clearly the "top"  $d_t$  and "bottom"  $d_b$  at the instant just after each new  $v_i$  is considered.

Also, as we consider each new point  $v_i$  in the simple polygonal chain, which two Left tests does the algorithm do, in order to decide if  $v_i$  is inside or outside the current convex hull (of  $\{v_0, v_1, \dots, v_{i-1}\}$ )?



(b). When Melkman's algorithm was run on a simple polygonal chain  $v_0, v_1, \dots$ , is the following sequence of deques  $\langle d_b, \dots, d_t \rangle$  (in ccw order) at each stage possible? Justify: *If yes, draw an example of a simple polygonal chain that is consistent with the sequence; if no, explain why it is impossible.*

(i).  $\langle 2, 0, 1, 2 \rangle, \langle 2, 0, 1, 2 \rangle, \langle 4, 0, 1, 2, 4 \rangle, \langle 5, 2, 4, 0, 5 \rangle, \langle 6, 2, 4, 0, 5, 6 \rangle$

(ii).  $\langle 2, 0, 1, 2 \rangle, \langle 3, 2, 0, 1, 3 \rangle, \langle 3, 2, 0, 1, 3 \rangle, \langle 5, 3, 2, 0, 5 \rangle, \langle 5, 3, 2, 0, 5 \rangle, \langle 7, 3, 2, 7 \rangle$

(iii).  $\langle 2, 1, 0, 2 \rangle, \langle 2, 1, 0, 2 \rangle, \langle 4, 1, 2, 4 \rangle$

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