

(1). [5 points]

(a). Assume that we execute Melkman's convex hull algorithm on the vertices of the chain shown below in the order $v_0, v_1, v_2, v_3, \dots$. (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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web coordinates of v the standard coordinates are $v = \begin{pmatrix} v_1 \\ v_2 \end{pmatrix}$ are the b_1 b_2 are assumed if no other basis is specified this means $v = v_1 e_1 + v_2 e_2$ if $b = \{v_1, v_2\}$ is a basis of \mathbb{R}^n then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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