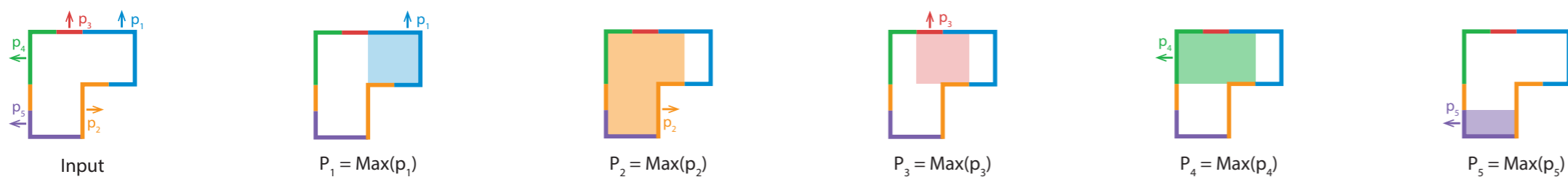


The following walkthrough illustrates the second pass of our two-pass construction algorithm, given the surface 2D parts in Figure 3(a) of the paper. The input surface 2D parts are replicated below. Throughout the walkthrough, we refer to Algorithm 1 and 2 in the paper.

The following are the maximum 3d parts for the input surface 2D parts. We initialize P_i as $\text{Max}(p_i)$ for each surface 2D part, as in lines 3 - 5 of Algorithm 1.



Each row below shows the steps performed on a pair of parts in Algorithm 1 (lines 8 - 27) to construct the final set of solid 3D parts.

