```
function [not_mask mask] = generate_category_mask(I, anchor_tree, delta_tree)

[rows cols x] = size(I);

[num_anchors tree_depth] = size(delta_tree);

mask = zeros(rows,cols);

not_mask = ones(rows,cols);

i = 1;
j = 2;

anchor = anchor_tree{1,j};

while(isempty(anchor) == 0 && j <= tree_depth)

  while(isempty(anchor) == 0 && i <= num_anchors)

    anchor = anchor_tree{i,j};
    delta = delta_tree{i,j}/sqrt(3);

    if(isempty(anchor) == 0)

      max_val = anchor(1) + delta;
      min_val = anchor(1) - delta;

      temp = I(:,:,1) <= max_val;
      temp = temp.*(I(:,:,1) >= min_val);

      max_val = anchor(2) + delta;
      min_val = anchor(2) - delta;

      temp = temp.*(I(:,:,2) <= max_val);
      temp = temp.*(I(:,:,2) >= min_val);

      max_val = anchor(3) + delta;
      min_val = anchor(3) - delta;

      temp = temp.*(I(:,:,3) <= max_val);
      temp = temp.*(I(:,:,3) >= min_val);

      mask = mask + temp;

    endif

    i = i + 1;
```

```
  endwhile

  j = j + 1;

endwhile

mask = mask > 0;
not_mask = not_mask - mask;

endfunction
```