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Select  $s_1,s_2,s_3$  as basic variables , set 1 to pivot , set 0 to all cells of the other rows of pivot column Replace  $s_3$  with  $x_2$  as basic variables, set 1 to pivot , set 0 to all cells of the other rows of pivot column  $c_j-z_j\geq 0$  , the coefficients of  $x_1,x_2$  are positive => not the optimal solution => repeat above steps

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Replace  $s_2$  with  $x_1$  as basic variables, set 1 to pivot , set 0 to all cells of the other rows of pivot column all  $c_j-z_j \leq 0$  => find the optimal solution

The optimal solution : 
$$(z,x_1,x_2,s_1,s_2,s_3)=(\frac{1640000}{3},\frac{4000}{3},\frac{2800}{3},\frac{160}{3},0,0)$$
 
$$z=\frac{1640000}{3}-\frac{2000}{3}s_2-\frac{800}{3}s_3$$

The optimal value  $z=\frac{1640000}{3}\approx 546666.7$ 

The shadow price of material2 is  $\frac{2000}{3}$  ¥/g, and the shadow price of material3 is  $\frac{800}{3}$  ¥/g, which means 1g material2 is bought,  $\frac{2000}{3}$  ¥ optimal value will be increased and 1g material3 is bought,  $\frac{800}{3}$  ¥ optimal value will be increased