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BS (SE)

Q2:-

Let y_1 and y_2 be the no. of products of A and B. Overtime will be

$$y_1 + y_2 + d_1^- - d_1^+ = 250$$

d_1^- = Under utilized

d_1^+ = Overtime production

Our goal is to maximize sales, there is no +ve deviation

$$y_1 + d_2^- = 150$$

$$y_2 + d_3^- = 200$$

$$y_1 + y_2 + d_1^- + d_1^+ = 500$$

$$y_1 + d_2^- = 1500$$

$$y_2 + d_3^- = 200$$

$$y_1, y_2, d_2^-, d_3^-, d_1^+ \geq 0$$

