

## **Homework 2**

Design a heat exchanger network for maximum energy recovery (minimum energy targets) for a chemical process which has thermal data as shown in the table. Assuming  $\Delta T = 10\text{ }^{\circ}\text{C}$ .

### Thermal Data

Stream No	Stream Type	Start Temperature ( $T_s$ ) ( $^{\circ}\text{C}$ )	Target Temperature ( $T_t$ ) ( $^{\circ}\text{C}$ )	Heat Capacity Flowrate (CP) ( $\text{kW}/^{\circ}\text{C}$ )
1	Hot	180	80	20
2	Hot	130	40	40
3	Cold	60	100	80
4	Cold	30	120	36