Min (max (pair sum))

01, EU & 013 & 04 5501 6

h pairs

Prove: Greedy choose (Smallest, largest)
Will not be worse

Suppose:

Ob is paired with ai

Now we swap their pairing

$$\begin{array}{ccc}
(\Omega_{i}, \Omega_{i}) & \longrightarrow & C\Omega_{i}, \Omega_{i} \\
(\Omega_{i}, \Omega_{i}) & & (\Omega_{i}, \Omega_{i})
\end{array}$$

Observe =

3)
$$\max(\alpha_b + \alpha_i, \alpha_i + \alpha_j)$$

 $\geq \alpha_b + \alpha_i$ (by definition)

$$\Rightarrow 0,0,0,0$$
, $max(0.40i,0.40i)$

 $\geq \alpha_{6} + \alpha_{i} \geq m_{\alpha} \times (\alpha_{6} + \alpha_{i}, \kappa_{i} + \kappa_{i})$