$C(x) = \sum_{i \in V} Y_i(x_i) + \sum_{i \neq j} Y_{ij}(x_i, x_j)$ V = {0,1,23 E = {0,7,2} => Non Cinear due to vandom variable x b) unary indicator variables: -> Mu= \(\int \) \(\text{Ked} \) \(\text{Ked} \) \(\text{V} = \(\xi_0, 1, 2 \right) \) \(\L = \(\xi_0, 1/2 \right) \) hinteger encoding for allelass with: Xi = Z Mi(k)· K and: Mi(k, Xi) = I(Xi=k) I(tout)=1 T(false)=0 anary cost vector c: Cu= E & Yi(K) pair wise indicator variables Mp- Z Z Z Mij (k,l) with: Mi(k,l,x,xj):= I(x;=k,xj=l) and: Z Mij (K, Q) = M; (K) I (face) = 0 pairwise cost vector c Cp= : Ked led 4p (K, l) C) E(M, Y) = E & M(K). Y. (K) + E & Z Mi, (K, l). Yp(K, l) Twith appropriate constrainty this is non linear

