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I problemi di ricerca operativa sono problemi decisionali di ottimizzazione di un obiettivo in presenza di risorse limitate. Si costruisce un modello che li descrive e poi si risolve il modello. Un modello matematico di ottimizzazione è un problema di massimo o minimo di una funzione f : Rn -> R ristretta ad una regione dello spazio Ω definita da vincoli espressi tramite intersezioni di insiemi di livello di funzioni a valori reali. Un problema di massimo si può trasformare in modo equivalente in uno di minimo e viceversa: ***max f(x) = - min -f(x)***

I punti di massimo di f coincidono con i punti di minimo di -f. La funzione f è chiamata **funzione obiettivo**, l’insieme Ω è chiamata **regione ammissibile** e ciascuna componente che la descrive è detta **vincolo**.

**Produzione**

Immagine che contiene testo

Descrizione generata automaticamenteSupponiamo che si debbano produrre n oggetti, ciascuno dei quali composto da m materie prime in proporzioni diverse tra loro date da una matrice di composizione A dove l’elemento ai,j rappresenta la quantità di materia prima i che serve per produrre l’oggetto j. Supponiamo di conoscere il guadagno cj ottenuto vendendo l’oggetto j e la disponibilità bi di ogni materia prima. Introduciamo le variabili xj che rappresentano le quantità di prodotto j da produrre:

Qualora il bene non fosse stato divisibile come ad esempio una macchina o un frigorifero si sarebbe dovuto aggiungere il vincolo di interezza: x ε Zn.

**Dieta**

Supponiamo di avere a disposizione n cibi contenenti ognuno m principi nutrizionali essenziali. Supponiamo di conoscere la quantità ai,j dell’i-esimo principio nutrizionale contenuta nel j-esimo cibo. Si vuole determinare una dieta giornaliera nel senso di un piano nutrizionale che minimizzi il costo totale e che rispetti il fabbisogno minimo giornaliero bi di ogni principio nutrizionale. Introduciamo le variabili xj che rappresentano le quantità di cibo j da introdurre giornalmente nella dieta.

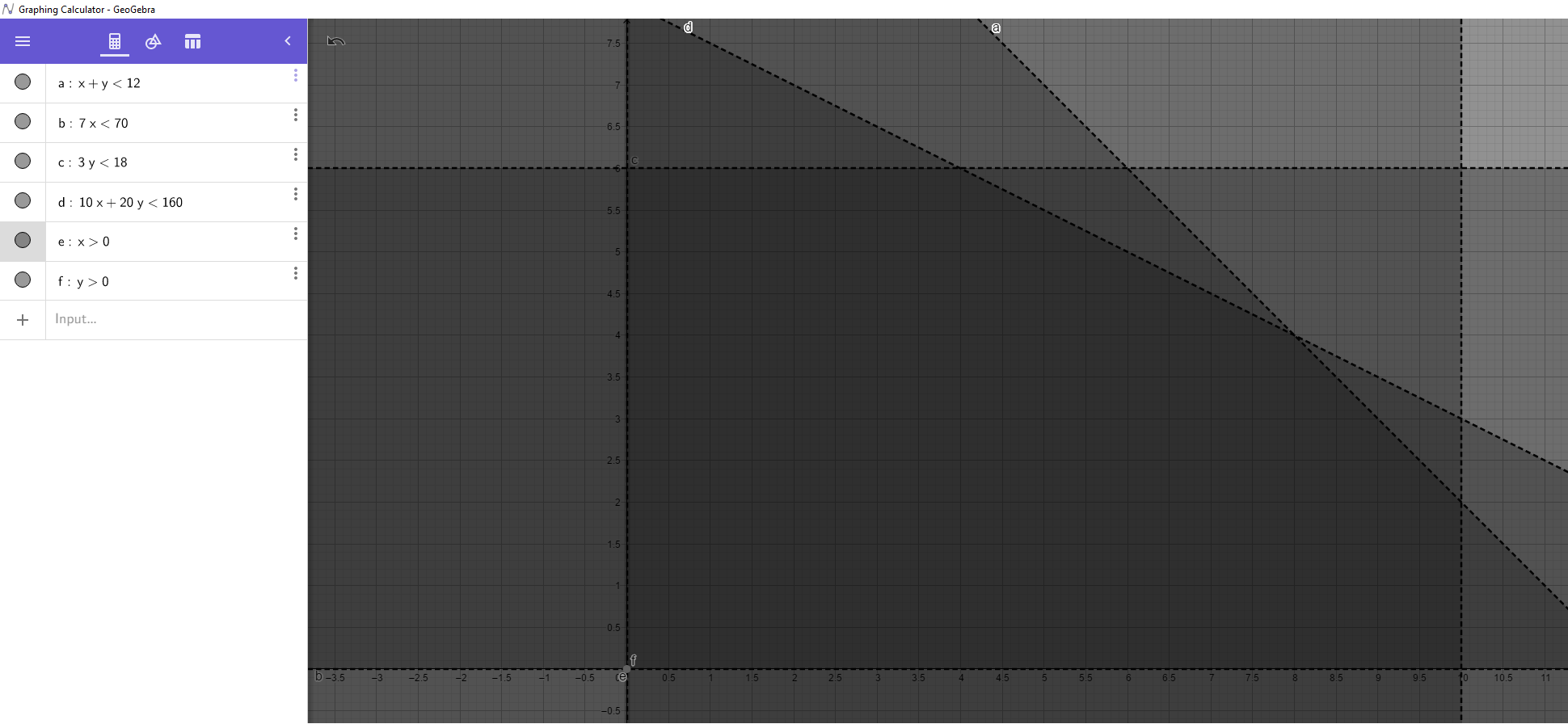
Immagine che contiene testo

Descrizione generata automaticamente

Viene formulato come problema di minimo e il segno delle disequazione è al contrario ( >= ).

**Immagine che contiene testo

Descrizione generata automaticamente**

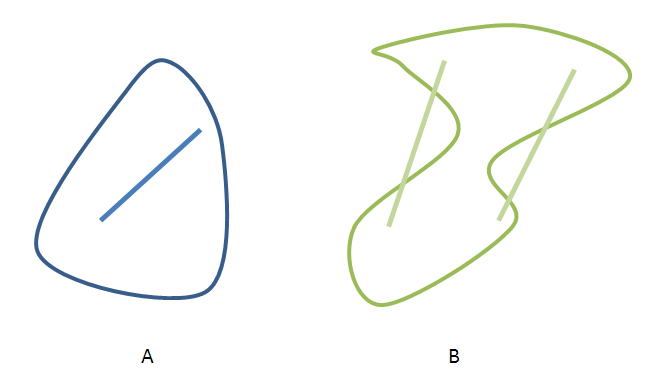
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***La parte in nero scuro costituisce la regione ammissibile.***

**Insieme convesso**

Un sottoinsieme K di Rn si dice convesso se comunque si scelgono due punti x1,x2 che appartengono a K si ha che:

λx1 + (1-λ )x2 ε K per ogni λ ε [0,1]

**Se K contiene due punti, contiene anche il segmento che li unisce.

**Combinazione convessa**

Un punto x di Rn si dice combinazione convessa di x1….xm punti se esistono dei coefficienti λ tali che:

x = λ1x1 + … + λmxm λ ε [0,1] λ1 + … + λm = 1

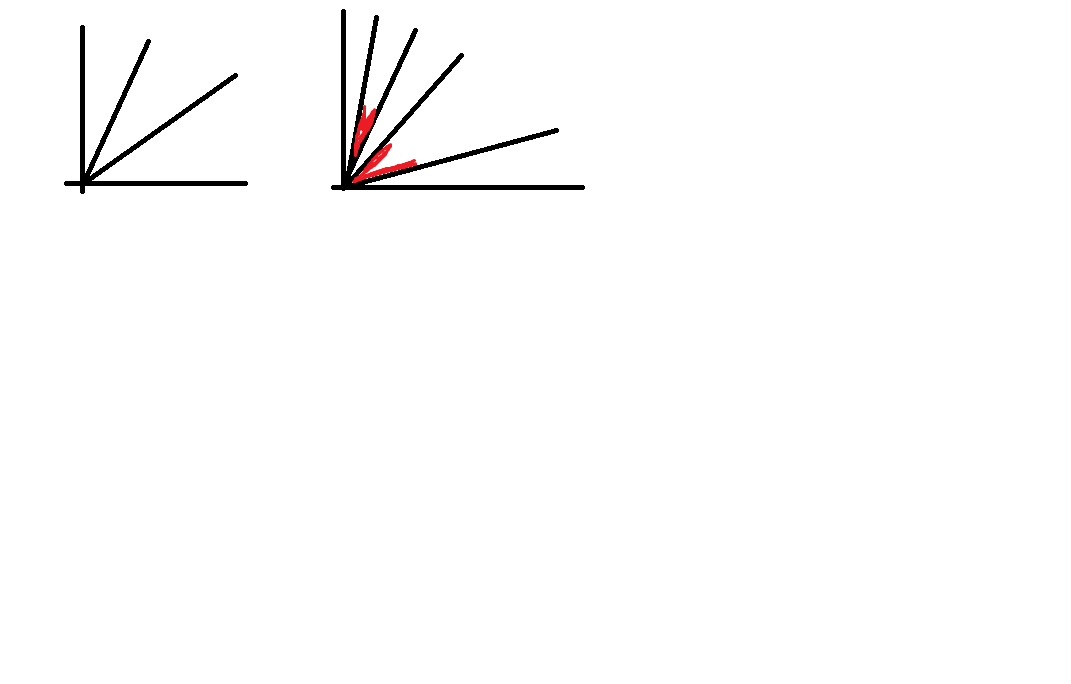
Se tutti i λi sono diversi da 0 la combinazione convessa si dice **propria.**

**Involucro convesso**

L’involucro convesso di un insieme k è l’insieme di tutte le possibili combinazioni convesse di elementi di K. conv(K) è il più piccolo insieme che contiene K infatti un insieme K coincide con il suo conv(K).L’involucro convesso di due punti è il segmento che li unisce mentre l’involucro convesso di tre punti è l’equazione dei punti appartenenti ad un triangolo che ha i tre punti come vertici.

**Cono**

Un sottoinsieme K di Rn si dice cono se per ogni x ε K e per ogni λ > 0 la semiretta λx (retta uscente dall’origine e passante per il punto) è interamente contenuta in K.



Un cono può essere convesso e non convesso.

**Combinazione conica**

Un punto x di Rn si dice combinazione conica di x1….xm punti se esistono dei coefficienti λ tali che:

x = λ1x1 + … + λmxm λ ε [0,1]

Se tutti i λi sono diversi da 0 la combinazione conica si dice **propria.**

**Involucro conico**

L’involucro conico di un insieme K è l’insieme di tutte le possibili combinazioni coniche di elementi di K. Cono(K) è il più piccolo insieme che contiene K. Un insieme K è un cono convesso se e solo se coincide con il suo cono(K).

**Semispazio chiuso**

Un semispazio chiuso in Rn può essere descritto algebricamente come l’insieme delle soluzioni di una disequazione in n variabili. È un insieme convesso.

**Poliedro**

Un poliedro in Rn è l’intersezione di un numero finito di semispazi chiusi ovvero l’insieme delle soluzioni di un sistema di m disequazioni lineari in n incognite.

P = { x ε Rn : Ax ≤ b , b ε Rm }

Un poliedro è un insieme convesso perché è l’intersezione di semispazi chiusi che sono insiemi convessi. È definito da un numero finito di vincoli perché è l’intersezione di un numero finito di semispazi. Non possono esistere vincoli di minore stretto perché la frontiera è sempre compresa nei semispazi chiusi (contengono tutti i punti di accumulazione). I poliedri possono essere limitati, illimitati o vuoti.

* Illimitati: hanno un numero di vincoli insufficiente.
* Vuoti: hanno un numero elevato di vincoli.

Un cerchio o un arco di cerchio non sono poliedri perché servirebbero infinite disequazioni per rappresentarli (infiniti vincoli).

**Cono poliedrico**

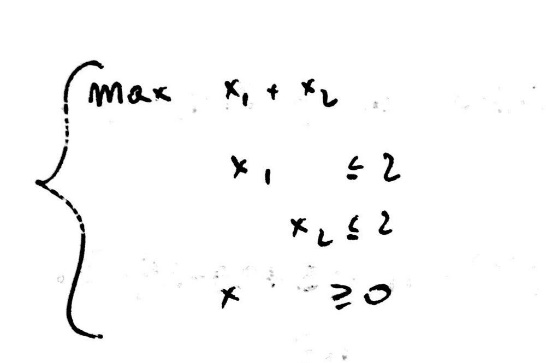
Un poliedro P che è anche un cono si chiama Cono poliedrico.

**Vertice**

Un vertice di un poliedro P è un punto del poliedro che non può essere espresso come combinazione convessa propria di altri punti del poliedro. L’insieme dei vertici di un poliedro P è definito vert(P).

**Immagine che contiene catena, interni, altalena, pensile

Descrizione generata automaticamente**

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**Teorema di Weyl (Teorema di rappresentazione dei poliedri).**

Dato un poliedro P = { x ε Rn : Ax ≤ b , b ε Rm } esiste:

* un sottoinsieme finito di P chiamato V = {v1,...,vm}.
* un insieme finito E = {e1,…,ep}.

eventualmente anche vuoti tali che

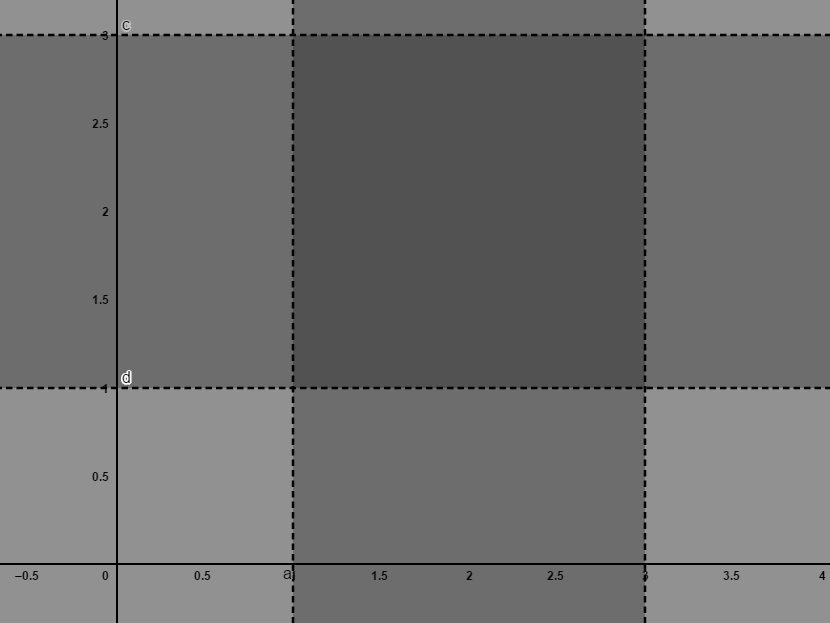
P = conv(V) + cono(E)

Il segno + indica la somma tra due insiemi. Gli elementi di E sono detti **direzioni di recessione**, ovvero tutte le direzioni lungo le quali il poliedro tende ad infinito. Se il poliedro ha vertici posso scegliere l’insieme dei vertici di P (vert(P) ) come insieme V. In ogni caso tutti i vertici devono essere compresi in V. I vertici sono sufficienti per descrivere un poliedro quindi posso scrivere:

P = conv(vert(P)) + cono(E)

I poliedri senza vertici sono quelli che hanno almeno due direzioni di recessione opposte come:

* Rette.
* Strisce.
* Semipiani.

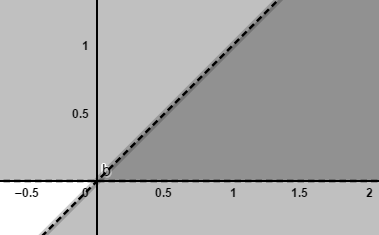
**Esempi di poliedri**

P = {xε R2 : 1≤x1≤3, 1≤x2≤3}

E = {0,0} POLIEDRO LIMITATO

V = {(1,1),(1,3),(3,1),(3,3)}

P = CONV(V)

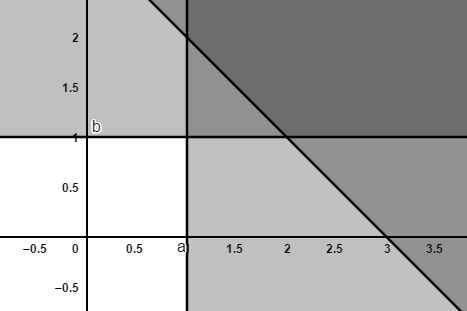


P = {xε R2 : x2≤x1, x2≥0}

E = {(1,1),(1,0)} POLIEDRO ILLIMITATO

V = {(0,0)}

P = CONV(V) + CONO(E)

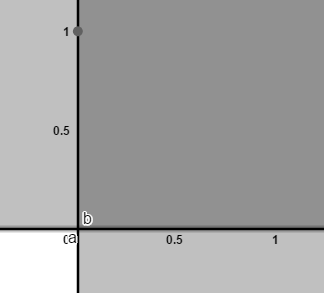


P = {xε R2 : x1+x2≥ 3 , x1≥1, , x2≥1}

E = {(0,1),(1,0)} POLIEDRO ILLIMITATO

V = {(1,2),(2,1)}

P = CONV(V) + CONO(E)

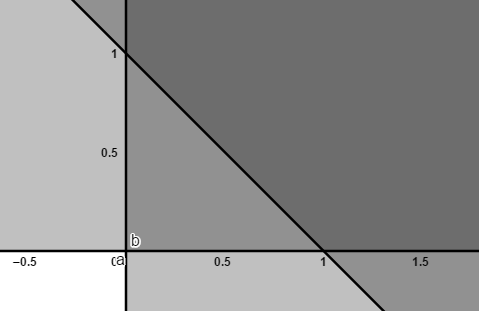


P = {xε R2 : x1≥0, x2≥0 }

E = {(0,1),(1,0)} POLIEDRO ILLIMITATO

V = {(0,0)}

P = CONV(V) + CONO(E)

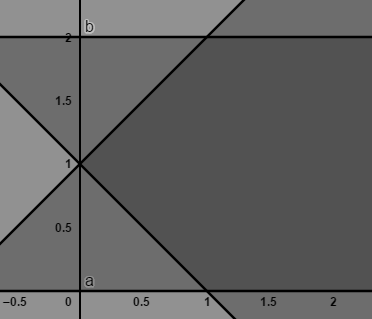


P = {xε R2 : x1≥0, x2≥0, x1+x2≥ 1 }

E = {(0,1),(1,0)} POLIEDRO ILLIMITATO

V = {(1,0),(0,1) }

P = CONV(V) + CONO(E)



P = {xε R2 : x2≥0, x2≤2, x1+x2≥ 1, -x1+x2≤1}

E = {(1,0)} POLIEDRO ILLIMITATO

V = {(1,0),(0,1),(1,2)}

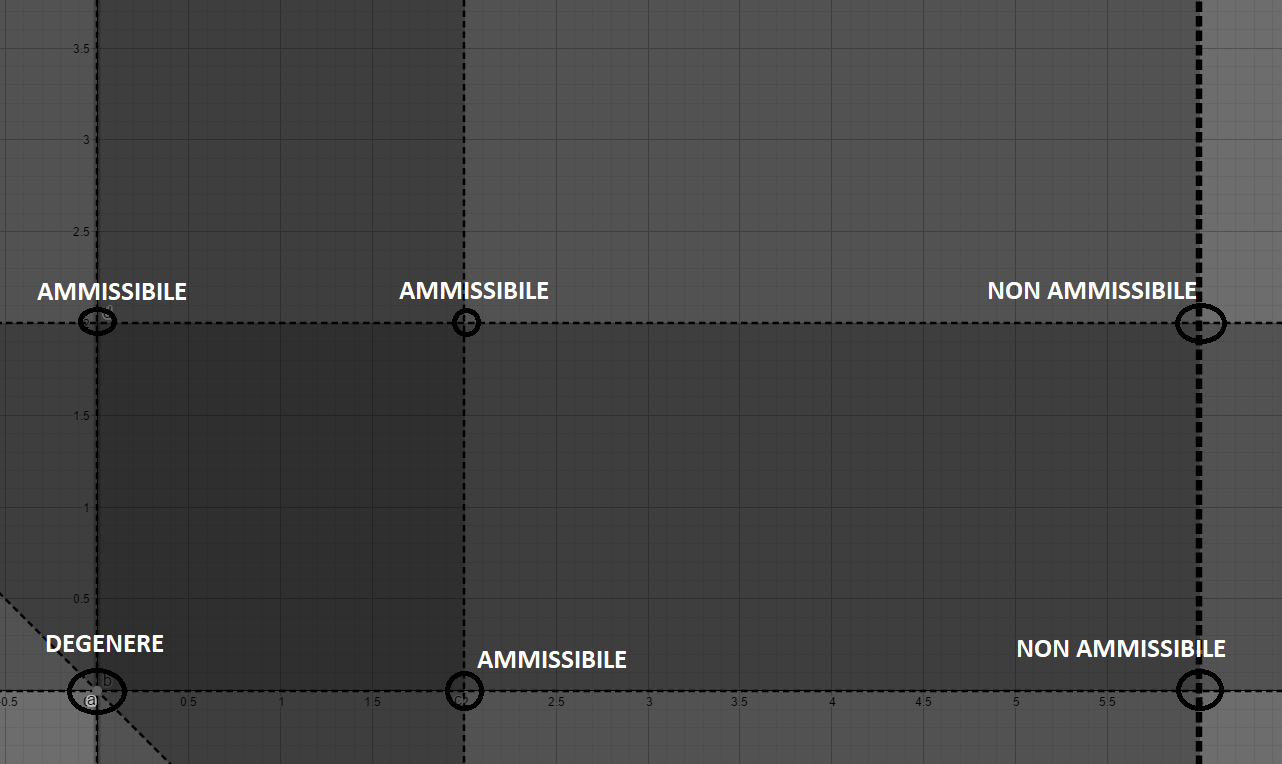
P = CONV(V) + CONO(E)

**Soluzione ammissibile**

Una soluzione di un problema di PL è ammissibile se rispetta tutti i vincoli (se sta dentro o al confine del poliedro).

**Regione ammissibile**

È l’insieme di tutte le soluzioni ammissibili, corrisponde al poliedro definito dai vincoli.



***IL QUADRATO SCURO RAPPRESENTA LA REGIONE AMMISSIBILE***.

**Soluzione ottima**

Fra tutte le soluzioni ammissibili è quella che ottimizza la funzione obiettivo. Una soluzione ammissibile non è sempre ottima ma una soluzione ottima è sempre ammissibile.

**Problema di PL**

È un problema in cui massimizza o minimizza una funzione lineare (funzione obiettivo) in n incognite, soggetta a vincoli lineari di ≥ o ≤.

**Problema di PL in forma primale standard**

Immagine che contiene testo

Descrizione generata automaticamenteUn problema del tipo:

È chiamato problema primale standard. Tutti i problemi di PL possono essere trasformati in formato primale standard seguendo tre tricks:

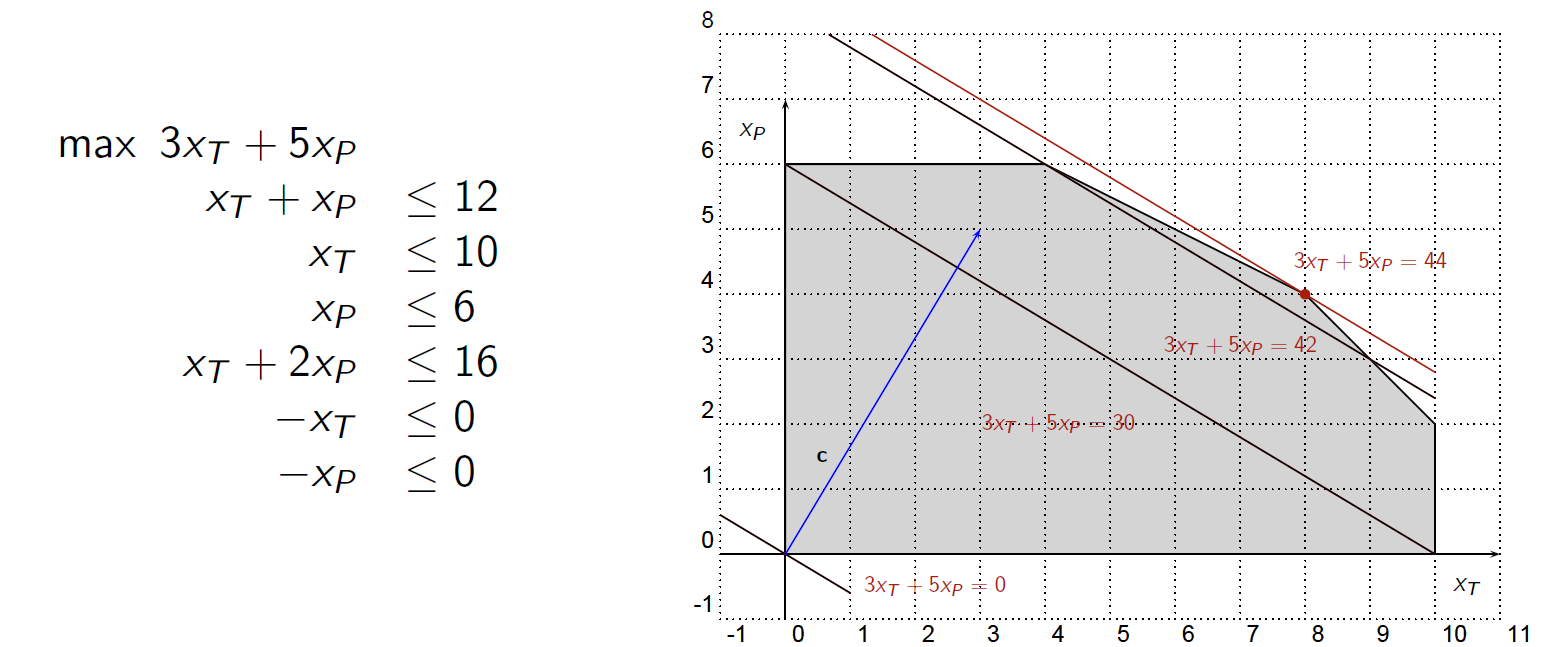
* Se ho vincoli di ≥ possono essere trasformati in vincoli di ≤ moltiplicando per (-1) tutta la disequazione.
* Se ho un vincolo di = lo posso trasformare in due vincoli di ≤ e ≥.
* Se ho un problema di minimo lo posso trasformare in un problema di massimo: min cx = - max (-cx).

**Caratterizzazione elementare dell’ottimalità**

* Se c ≠ 0 allora ogni soluzione di (P) non è interna al poliedro.
* Se il problema ha 2 soluzioni ottime distinte allora ne ha infinite.
* Le soluzioni ottime locali di P sono anche soluzioni ottime globali.

Per il teorema di Fermat un punto interno per essere di massimo o minimo deve annullare il gradiente il punto di massimo o minimo però esiste sicuramente per Weierstrass perché P è una regione chiusa e limitata. Se x1 e x2 sono entrambi punti ottimi allora ogni punto del segmento che li unisce è una soluzione ottima di (P).

**Linee di isoguadagno o isocosto**

Si parla di linee di isoguadagno per problemi di max e isocosto per problemi di min. Sono rette perpendicolari al gradiente (direzioni di massima pendenza) della funzione obiettivo. Disegnando le linee di isocosto o isoguadagno si disegnano le rette per le quali la funzione obiettivo assume valori costanti.

**Teorema fondamentale della PL**

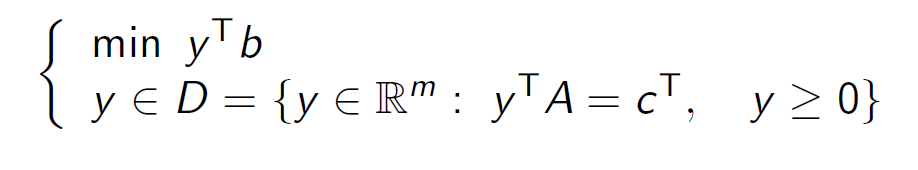
Supponiamo che un poliedro P sia rappresentato come P = conv(V) + cono(E)

V = {v1,..,vm} , E ={ e1,…,ep}

Se il problema ha valore ottimo allora esiste k ε {1….m} tale che max cx = cvk .

Possono esistere situazioni in cui il problema ha ottimo finito senza avere vertici ottimi, ad esempio c perpendicolare ad un vincolo e la soluzione ottima è un intero segmento (infinite soluzioni ottime). Se ho un poliedro illimitato non è detto che il valore ottimo sia infinito, mentre se il valore ottimo è infinito il poliedro è necessariamente illimitato. Se il poliedro P è limitato e non vuoto (ha vertici) allora esiste almeno un vertice che ottimizza il problema.

**Problema di PL in forma duale standard**

Al problema primale in forma primale standard si associa il seguente problema duale standard:

Dato che ogni problema di PL può essere trasformato in formato primale standard vuol dire che ogni problema di PL può essere trasformato in formato duale standard. Il duale standard è un poliedro perché ogni equazione può essere sdoppiata in 2 disequazioni, quindi, è l’intersezione di un numero finito di semispazi chiusi. Il duale del duale è il primale.

**Teorema della dualità debole**

Se i poliedri P e D sono non vuoti allora cx ≤ yb per ogni x ε P, y ε D.

**Dimostrazione**: per ogni x ε P, y ε D vale ya = c

ya = c => cx = (yA)x = y(Ax)

Notiamo che y ≥ 0 e Ax ≤ b quindi cx = y(Ax) ≤ yb => cx ≤ yb

**Teorema della dualità forte**

Se i poliedri P e D sono non vuoti allora

**-∞ < v(P) = v(D) < ∞**

I valori ottimi coincidono ma ciò non vuol dire che non le soluzioni ottime coincidono.

|  |  |  |
| --- | --- | --- |
| **RELAZIONI** | D ≠ 0 | D = 0 |
| P ≠ 0 | v(P) = v(D) ε R | v(P) = v(D) = ∞ |
| P = 0 | v(P) = v(D) = -∞ | v(P) = -∞ ; v(D) = ∞ |

* P≠0 e D≠0

I valori ottimi coincidono e sono finiti per il teorema della dualità forte.

* P≠0 e D=0

Vuol dire che il poliedro P è illimitato e il valore ottimo del prima è ∞. Per convenzione il minimo di una funzione in un insieme illimitato è ∞, quindi i valori coincidono.

* P=0 e D≠0

Si ottiene la tesi interpretando il problema primale come il duale del problema duale.

* P=0 e D=0

Convenzioni precedenti: massimo di una funzione in un insieme vuoto è -∞. Minimo di una funzione in un insieme vuoto = ∞.

**Teorema degli scarti complementari**

Supponiamo che x° e y° siano soluzioni ammissibile per P e D. Allora si ha che sono ottime se e solo se

y°(b-Ax°) = 0

Immagine che contiene testo

Descrizione generata automaticamenteIn questo caso si dicono in scarti complementari.

**Algebra della PL**

Supponiamo di avere una coppia di problemi prima e duale quindi sono noti A ε Rm\*n, b ε Rm, c ε Rn. Se il rango(A) < n il sistema lineare Ax = 0 ammette infinite soluzioni non nulle e il poliedro P non contiene vertici. Se rango(A) = n l’unica soluzione del sistema lineare Ax = 0 è la soluzione nulla e il poliedro P ha vertici.

**Base**

Una base B è un sottoinsieme di n indici non necessariamente consecutivi:

* B ⊆ {1…m}
* |B| = n

Tali che la sottomatrice AB ottenuta estraendo da A le righe Ai con i ε B è invertibile (det (AB) ≠ 0 ). AB si dice matrice di base e N è l’insieme degli indici non di base.

**Soluzione di base primale**

x° = AB-1bB

**Soluzione di base duale**

y°B= cTAB-1 y° = (yB,yN) yN = 0

**Caratterizzazione delle soluzioni di base**

|  |  |  |
| --- | --- | --- |
|  | **x** | **y** |
| **AMMISSIBILE** | Per ogni i ε N : Aix ≤ bi | Per ogni i ε B : yi ≥ 0 |
| **NON** **AMMISSIBILE** | Esiste i ε N : Aix > bi | Esiste i ε B : yi < 0 |
| **DEGENERE** | Esiste i ε N : Aix = bi | Esiste i ε B : yi = 0 |
| **NON** **DEGENERE** | Per ogni i ε N : Aix ≠ bi | Per ogni i ε B : yi  ≠ 0 |

**Vertice primale**

Sia P un poliedro della forma P = { x ε Rn : Ax ≤ b , b ε Rm } . Allora x° è un vertice di P se e solo se è una soluzione di base ammissibile.

**Vertice duale**

Sia D un poliedro della forma D = { y ε RM : yA = c } . Allora y° è un vertice di D se e solo se è una soluzione di base ammissibile.

Una base può generare una e una sola soluzione di base, mentre una soluzione di base può essere generata da diverse basi. Una base B genere due soluzioni di base (primale e duale) dette complementari. Per trovare il vertice ottimo cioè la soluzione ottima di un problema di PL bisognerebbe generare tutte le basi e vedere tra le soluzioni di basi ammissibili quale ottimizza la funzione obiettivo. Un algoritmo del genere è molto dispendioso quindi l’esplorazione dei vertici deve avvenire in maniera intelligente.

**Condizione sufficiente di ottimalità**

Immagine che contiene orologio, tavolo

Descrizione generata automaticamenteDate due soluzioni di basi complementari, se:

Ma non è sempre così. Posso avere 4 casi:

* x e y non ammissibili: è necessario cambiare base perché x e y non sono vertici di P e D e quindi non possono essere ottimi.
* x e y ammissibili: sono vertici dei rispettivi poliedri e per il teorema della dualità forte hanno lo stesso valore ottimo. I vertici sono ottimi.
* x ammissibile e y non ammissibile: x è un vertice del primale ma non si può verificare l’ammissibilità di y. Bisogna cambiare base.
* x non ammissibile e y ammissibile: y è un vertice del duale ma non si può verificare l’ammissibilità di x.

**Significato di soluzione degenere**

In R2 se ho una soluzione di base genere vuol dire che ci sono almeno 2 basi che generano la stessa soluzione di base. In Rn se ho un vertice degenere che soddisfa (n+1) vincoli con l’uguale allora vuol dire che ogni volta che prendo n vincoli per fare una base, ne lascio uno fuori.

**Algoritmo del simplesso primale**

Immagine che contiene testo

Descrizione generata automaticamenteL’algoritmo del simplesso risolve problemi di PL in forma primale standard. L’algoritmo parte da una soluzione di base ammissibile x°, cioè un vertice di P. Se la soluzione di base complementare è ammissibile siamo all’ottimo altrimenti si cambia base. Il cambio base è definito in modo tale che se la nuova soluzione di base è diversa da quella vecchia, il valore della funzione obiettivo cresce (problema di max) mentre se la soluzione di base coincide con quella vecchia, si evita di ciclare sulle stesse basi (regole anticiclo di Bland). Si cambia solo una riga a volta (quindi si passa da vertici adiacenti) anche per migliorare la complessità del calcolo della matrice inversa AB. L’algoritmo è in grado di capire quale spigolo porta ad un valore migliore della funzione obiettivo (valore crescente).

**Regole anticiclo di Bland**

1. come indice uscente si sceglie il primo per il quale si ha y° < 0.
2. Come indice entrante si prende quello per il quale risulta il rapporto minore. A parità di rapporto si prende quello per cui si verifica prima.

Le regole anticiclo di Bland garantiscono che il simplesso non cicli su basi degeneri e che termini in un numero finito di iterazioni.

Immagine che contiene testo

Descrizione generata automaticamente**Esempio**

**Immagine che contiene acqua, tavolo, lotto, giorno

Descrizione generata automaticamente**

Il numero rappresenta gli indici quindi le disequazioni

**Algoritmo del simplesso duale**

L’algoritmo risolve problemi di PL in forma duale standard. È analogo al simplesso primale con la differenza che si mantiene sempre ammissibile la soluzione di base duale e si controlla l’ammissibilità della soluzione di base primale. Se la primale è ammissibile allora sono all’ottimo, altrimenti cambio base. Il cambio base è definito in modo tale che se la nuova soluzione di base duale è diversa da quella vecchia, allora il valore della funzione obbiettivo diminuisce, mentre se la nuova soluzione di base duale è uguale a quella vecchia si evita di ciclare sulle stesse basi. L’algoritmo del simplesso non visita mai due volte la stessa base ed essendo finito il numero di basi da visitare l’algoritmo risolve il simplesso in un numero finito di iterazioni.

Immagine che contiene testo

Descrizione generata automaticamente

**![Immagine che contiene tavolo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4VRCRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjE1IDEwOjM4OjA2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM0MwAAkpIAAgAAAAM0MwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Interpretazione geometrica**

Il simplesso si muove di base in base e le basi sono adiacenti perché cambia solo un indice alla volta. Se non siamo nel caso degenere il cambio di base corrisponde a un cambio di vertice. Il simplesso non fornisce un vertice ottimo ma una base ottima cioè una coppia di soluzioni ottime complementari x,y. Da questo ne deriva che se sono su un vertice ottimo (caso degenere), il simplesso potrebbe non accorgersene subito.

**Problema ausiliario duale**

Immagine che contiene testo

Descrizione generata automaticamenteConsideriamo il problema in forma duale standard

Immagine che contiene testo

Descrizione generata automaticamentePer trovare una base ammissibile di (D) si costruisce il problema ausiliario duale:

**![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4UbARXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjE5IDE1OjE2OjI1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5NwAAkpIAAgAAAAM5NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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V+ILW3WO81jyBD9pcdTsHQV19JRQAHkVwXjTTzofiCy8X2OnyXl7CBZXqQHDPaMc7scbijDI+pFd7TCmcY4/HigD5V/Zx+F+teKvj98Rfjv4nE8H9sD+xPDVldR7Ht9OjcDzNvbeyhh9WziuyttLh+GX7UXiHxDfSGHRvHWkWFvHdSkCJb60MwEZYn5WeKRSM9SuK928vapy3JycnnHOR+AqhrHh2y8QWJs9Ttbe/tCysYbiPepIOQeehB5BHSgDhfjF4FHia68H+KLeMz6h4P1QarBGiB3mjaKSGaNM9GZJDg8YKivOvC/x88NfEv4uaCvgbTtZnuXMsHiGa50qa0jtYVi3ItyZVBEgYLtP15r6QSFY1VVG0KMD6UxbVFZm24ZjktnnIGM5+lAHzB8atWXwH+2R8CNS08It54ph1Lw7qaLgCW0WJbiIkDqUkU4bsC4/ir6mrweP9k7R5v2mo/jRf+IdZ1LVLe2e3sdHupg9nZFk8tniGPlymePUmveKACiiigAoopPwoAWiiigAooooAKKTIo3DOKAFooooAKKKKACiikoAWiik/DNAC0UUmRQAtFFFABRRRQAUUUUAFFFFABRSUtABRRRQAUU3cBinUAFFFFABRSUfhQAtFJkUtABRRRQAUUUUAFFFFAH/2Q==)**Possiamo supporre che c ≥ 0 cambiando eventualmente segno alle colonne di A relative alle componenti di c negative. La base formata dagli indici relativi alle variabili ausiliarie che hanno la matrice I come matrice di base AB è una base ammissibile per il problema DAUX. A partire da tale base possiamo applicare il simplesso per risolvere il problema.

**Teorema**

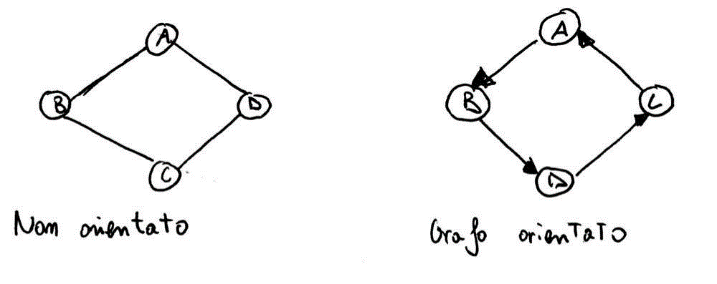
* Se v(DAUX) > 0 allora D=0 cioè (D) non ha soluzioni ammissibili (ne tantomeno ottime).
* Se v(DAUX) = 0 allora D≠0 cioè (D) ha una soluzione ammissibile fornita dalla base ottima del problema ausiliario.

Non si possono avere altri casi perché abbiamo supposto che nel problema ausiliario sia abbia c ≥ 0 .

**Grafo**

Un grafo G = (N,A) è un insieme di nodi e di archi definito come coppia di nodi ordinati. Se il grafo è orientato i,j ≠ j,i . Gli archi di una rete si ordinano in ordine lessicografico. È più generale trattare reti orientate perché per trasformarle in reti non orientate basta raddoppiare gli archi. D’ora in avanti avremo che:

* |N| = n (numero dei nodi è uguale a n).
* |A| = m (numero degli archi è uguale a m).

m < n2.

**Grafo connesso**

Un grafo si dice connesso se per ogni coppia di nodi esiste un cammino non per forza orientato che li connette.

**Cammino**

Un cammino dal nodo n1 al nodo np+1 è un insieme di archi a1,…,ap tale che per ogni *i* si ha ai = (ni, ni+1) e gli archi sono tutti diversi tra loro. Il cammino è **orientato** se tutti gli archi vanno dal nodo ni al nodo ni+1. Un **ciclo** è un cammino tale che il nodo di partenza è anche il nodo di arrivo.

**Albero di copertura**

Un albero di copertura è un sottoinsieme di archi T ⊆ A tale che il sottografo (N,T) sia connesso e non contenga cicli. Non deve essere necessariamente orientato. Una **foglia** di T è un nodo nel quale incide un solo arco di T. Un grafo è connesso se e solo se contiene (almeno) un albero di copertura. In un grafo connesso con n nodi gli alberi di copertura sono formati da n-1 archi ed hanno almeno 2 foglie.

**Flusso di costo minimo**

Consideriamo un grafo G=(N,A) con |N|= n e |A|= m.

Su ogni arco ai,j sono definiti:

* ci,j : costo per unità di flusso.
* Una capacita superiore del flusso ui,j .
* Una capacità inferiore del flusso li,j (che spesso viene posta = 0).

Su ogni nodo sono definiti dei bilanci bi con la convenzione che:

* bi  > 0 significa che il nodo è una destinazione.
* bi < 0 significa che il nodo è una sorgente.

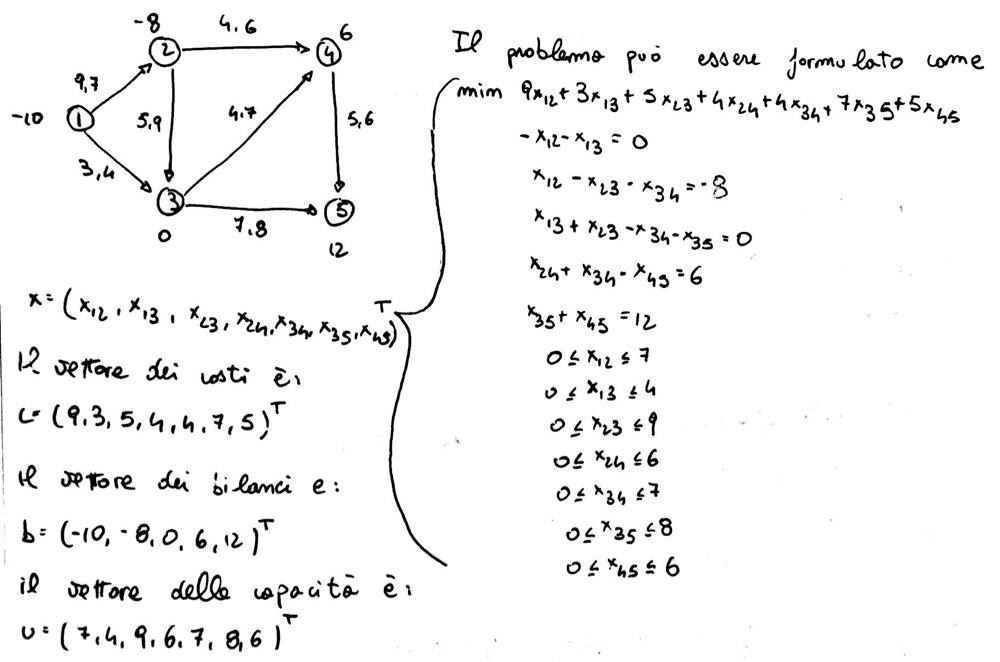
Immagine che contiene testo

Descrizione generata automaticamenteIntroduciamo le variabili xi,j che rappresentano la quantità di flusso dal nodo i al nodo j. Il problema di flusso di costo minimo consiste nel determinare un flusso che rispetti i bilanci dei nodi e le capacità degli archi e che abbia costo totale minimo.

Immagine che contiene testo

Descrizione generata automaticamenteOppure:

Notiamo che il problema di flusso di costo minimo è un problema di PL.

**Esempio**

**Immagine che contiene tavolo

Descrizione generata automaticamente**

**Proprietà della matrice di incidenza E**

Supponendo che il grafo G=(N,A) con n nodi ed m archi sia connesso, la matrice di incidenza E ha le seguenti proprietà:

1. rango(E) ≤ n-1 e Ex=b è un sistema sovradeterminato.
2. Se T è un albero di copertura allora la sottomatrice ET ε R(n-1)\*(n-1) è invertibile e ha determinante = ± 1.
3. Rango(E) = n-1.
4. Se ET è una sottomatrice di E di dimensione n-1 allora è un albero di copertura se e solo se ET è invertibile.

**Visita per foglie**

Per scrivere la matrice di incidenza ET in forma triangolare si usa un’opportuna visita di T detta visita per foglie:

* Scegliamo una foglia z diversa dal nodo 1 di T.
* Consideriamo l’unico arco a di T che incide sul nodo z.
* Costruiamo la matrice ET mettendo il nodo z come prima riga e l’arco a come prima colonna.
* Cancelliamo dal grafo (N,T) il nodo z e l’arco a.
* Ripetiamo.

**Flusso di costo minimo non capacitato**

È un caso particolare del problema di flusso di costo minimo in cui le capacità superiori sono illimitate, quindi ui,j = ∞.

Immagine che contiene oggetto, orologio

Descrizione generata automaticamente

c,x ε Rn E ε Rn\*m b ε Rm

Consiste in un problema di PL in forma duale standard. Se lo risolvessi con il simplesso duale dovrei:

1. Scegliere una base B tale che EB ε Rn\*n abbia determinante diverso da 0.
2. Controllare l’ammissibilità della soluzione di base complementare.
3. Calcolare l’indice entrante.
4. Calcolare i rapporti.
5. Calcolare l’indice uscente.

**Teorema delle caratterizzazioni delle basi (reti non capacitate)**

Dato che rango(E) = n-1 e se T è un albero di copertura allora ET è invertibile possiamo dedurre:

T base ⬄ T albero di copertura

Quindi per trovare una base è sufficiente dividere gli archi in due sottoinsiemi: (T,L) dove T è l’albero di copertura.

**Problema dei potenziali ai nodi della rete**

**Immagine che contiene testo

Descrizione generata automaticamente**

**Soluzioni di base**

* Flusso di base: x\*= ( xT,xL) xT= ET-1b xL = 0
* Potenziali di base: π = cTET-1 . Si pone π = 0 in quanto il sistema è sottodeterminato cioè ha n-1 equazioni in n incognite.

**Caratterizzazione delle soluzioni di base**

Immagine che contiene testo, tavolo

Descrizione generata automaticamente

**Condizioni di Bellman: condizioni di ottimalità per reti non capacitate**

Sia dato un albero di copertura T che genera un flusso di base xT ammissibile. Se il potenziale di base è tale che -πi + πj ≤ ci,j => cπi,j ≥ 0 per ogni (i,j) ε L allora xT è ottimo.

**Teorema dell’interezza**

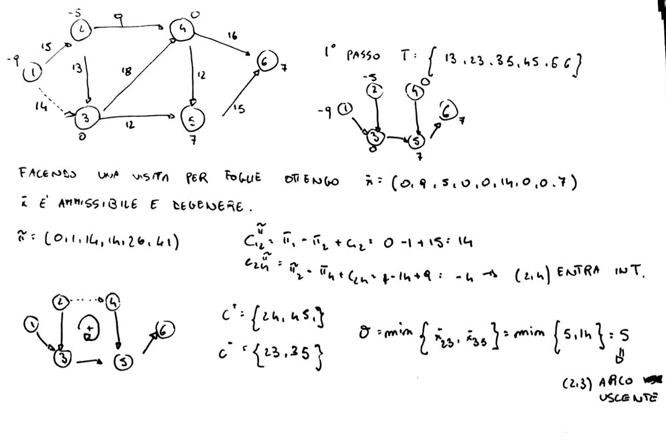
Se b è a componenti intere allora i flussi x di base sono a componenti intere.

**Calcolo delle soluzioni di base**

Per calcolare la soluzione del sistema ETxT=b dovrei calcolare l’inversa di ET e considerando che ET ha dimensione (n-1) il costo computazione è elevato. Si usa quindi l’ispezione diretta per foglie per calcolare il flusso di base xT. Per calcolare il potenziale di base π si parte da π1= 0 perché altrimenti avrei un sistema sovradeterminato. La differenza di potenziale ai nodi avendo π1= 0 deve essere uguali ai costi. Se ponessi π1=a (valore a ε R) il risultato verrebbe sfasato di +a.

Immagine che contiene testo

Descrizione generata automaticamente**Algoritmo del simplesso per flussi (non capacitato)**

****

**Osservazioni sulla rottura del ciclo**

Supponiamo di avere un albero di copertura T che genera un flusso di base ammissibile e un potenziale non ammissibile. π non ammissibile significa che esiste un (i,j) ε L : cπi,j < 0. Se esiste più di un arco che verifica questa condizione si prende il minimo in ordine lessicografico (prima regola anticiclo di Bland). Supponiamo che tale arco sia (p,q) ε L il quale entra in T. Ad ogni passo la funzione obiettivo cresce quindi non passa mai due volte dalla stessa base e non cicla su vertici degeneri per la prima regola anticiclo di Bland. Quando si aggiunge un arco entrante in T si viene a creare un ciclo C quindi per avere un altro albero di copertura e quindi una nuova base si deve rimuovere un arco creando una rottura del ciclo. Si impone un aggiornamento del flusso x che permette alla funzione obiettivo di decrescere (è quello che vogliamo).

**Flussi e potenziali di base del problema capacitato**

Immagine che contiene oggetto, orologio, arancia

Descrizione generata automaticamenteIl modello per reti capacitate non è né un Primale standard né un Duale standard.

Immagine che contiene testo

Descrizione generata automaticamentePosso introdurre le variabili di scarto w per ricordarmi che è un problema duale standard.

**Tecnica della tripartizione degli archi**

Dividiamo gli archi in tre gruppi (T,L,U) con le seguenti proprietà:

* T ∪ L ∪ U = A.
* T è un albero di copertura.
* L è l’insieme degli archi vuoti della rete.
* U è l’insieme degli archi saturi della rete.
* È possibile che L o U siano vuoti.
* Gli insiemi T,L,U sono a due a due disgiunti.

**Teorema della caratterizzazione delle basi**

Sia data una qualunque tripartizione T,L,U che soddisfa le precedenti proprietà, allora:

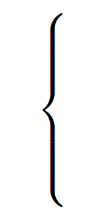
**B = T** ∪ **U** ∪ **T’** ∪ **L’**

è una base con det = ± 1.

**Teorema dell’interezza per reti capacitate**

Se i vettori u e b sono a componenti intere allora le soluzioni di base del poliedro dei flussi sono a componenti intere.

**Flusso di base**

Partendo dalla relazione x + w = u si ha il sistema di equazioni:

xT + wT’ = uT

xL + wL’ = uL

xU + wU’ = uU

Dato che gli indici di U’ e L non sono in base si avrà che xL e wU sono uguali a 0. In realtà xT si può calcolare tramite l’ispezione diretta per foglie mentre le variabili w rappresentano la quantità di flusso che si può ancora spedire nell’arco.

Quindi il flusso di base sarà:

**(x,w) = (xT, xL, xU, wT’, wL’, wU’ )**

L’unica cosa da calcolare è xT e si fa tramite l’ispezione per foglie.

**Potenziale di base**

Il potenziale di base è:

**(π,w) = (cTE-1T, O, O, πEU – cU )**

Immagine che contiene tavolo

Descrizione generata automaticamenteIn realtà π si calcola come per le reti non capacitate ponendo π1 = 0 e facendo la visita anticipata dalla radice.

**Osservazioni**

Un flusso di base è **degenere** se almeno un arco di T è vuoto o saturo.

**Teorema di Bellman**

Immagine che contiene arancia, guardando, vicino, orologio

Descrizione generata automaticamenteSupponiamo di avere una tripartizione (T,L,U) degli archi che generi un flusso di base x ammissibile. Se il potenziale è tale che:

Condizioni di Bellman

Allora x è ottimo.

**Algoritmo del simplesso per flussi (capacitato)**

1. Trova una tripartizione T,L,U che generi un flusso di base ammissibile.
2. Calcola il flusso di base x e il potenziale di base π:
   * x = (xT, xL, xU) xT = ET-1(b – EUuU) xL = 0 xU = 0
   * π = cTE-1T
   * cπi,j = πi – πj + ci,j costo ridotto di ogni arco i,j.
3. Se le condizioni di Bellman sono soddisfatte:

Immagine che contiene arancia, guardando, vicino, orologio

Descrizione generata automaticamente

Allora stop: x è un flusso ottimo e π è un potenziale ottimo. Altrimenti calcola **l’arco entrante**:

**(p,q) = min { {(i,j) ε L : cπi,j < 0 } U { (i,j) ε U : cπi,j, > 0 } }**

Dove il minimo è fatto in ordine lessicografico sugli archi. L’arco p,q forma un ciclo con gli archi di T e fissa su c un verso:

* Concorde con (p,q) se (p,q) ε L.
* Discorde con (p,q) se (p,q) ε U.

Si indica con C+ l’insieme degli archi concordi con il verso di (p,q) e C- l’insieme degli archi discordi con il verso di (p,q)

1. Calcola :
   * θ+ = min { ui,j – xi,j (i,j) ε C+ }
   * θ- = min {xi,j (i,j) ε C-­ }
   * θ = min {θ+ , θ-­ }

Il minimo in un insieme vuoto è ∞. Se θ= ∞ allora STOP: il flusso di costo minimo ha valore -∞. Altrimenti calcola l’indice uscente (r,s) = min ( {(i,j) ε C+ : ui,j – xi,j= θ} U {(i,j) ε C- : xi,j= θ} dove il minimo è fatto in ordine lessicografico.

1. Aggiorna la tripartizione e torna al passo 2.

**Osservazioni (rottura del ciclo)**

Abbiamo una tripartizione T,L,U che genera un flusso di base ammissibile ma un potenziale π non ammissibile perché esiste almeno un arco che viola le condizioni di Bellman. Si ha un aggiornamento del tipo :

**xi,j(θ) = { { xi,j + θ se (i,j) ε C+} U { xi,j – θ se (i,j) ε C -} U { xi,j altrimenti} }**

L’arco entrante può appartenere a L oppure ad U.

**(i,j) ε L**

1. θ = θ+
   1. Un arco di C+ si è saturato quindi esce da T ed entra in U:

T L U

1. θ = θ- 
   1. Un arco di C- si è svuotato , esce da T ed entra in L

T L U

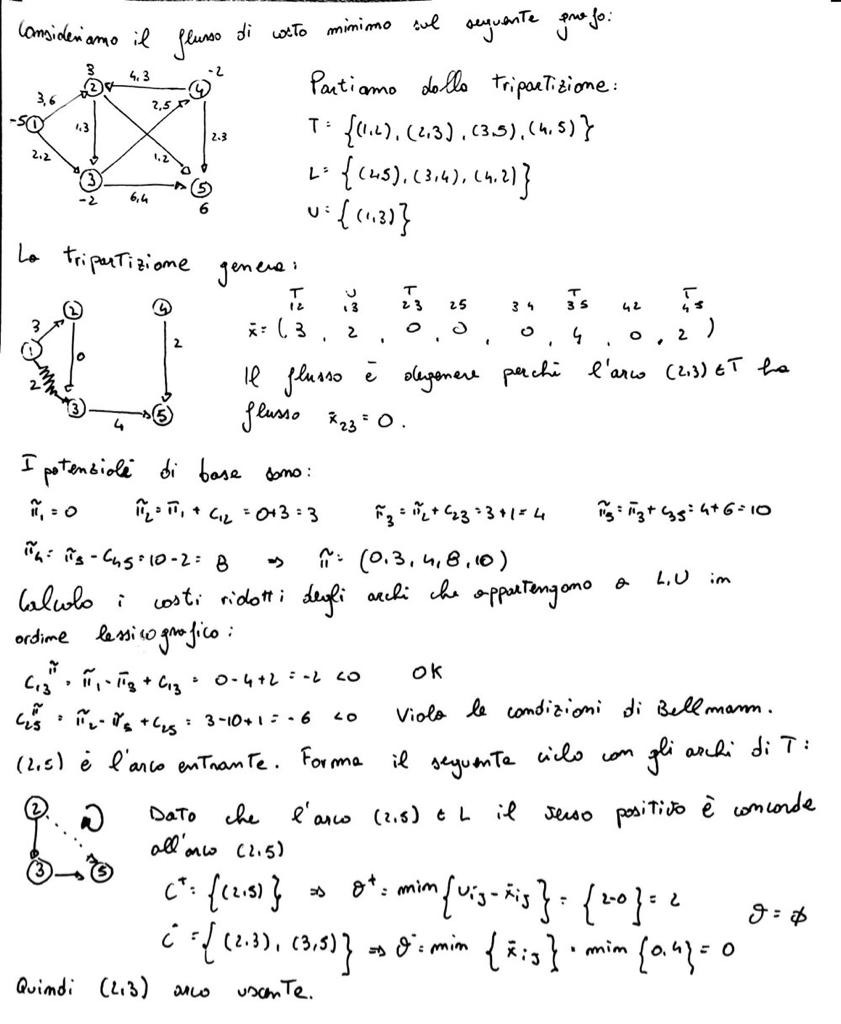
**(i,j) ε U**

1. θ = θ+
   1. Un arco di C+ si è saturato quindi esce da T ed entra in U

T L U

1. θ = θ-­
   1. Un arco di C- si è svuotato, esce da T e va in L

T L U



Se θ = 0 il flusso è sicuramente degenere quindi il valore del flusso rimane inalterato e si hanno due casi:

1. Un arco di T è uguale alla capacità massima.
2. Un arco di T diverso da quello in U è vuoto.

**Cammini minimi**

**Cammino**

Un cammino dal nodo n1 al nodo np+1 è un insieme di archi a1,…,ap tale che per ogni *i* si ha ai = (ni, ni+1) e gli archi sono tutti diversi tra loro. Il cammino è **orientato** se tutti gli archi vanno dal nodo ni al nodo ni+1. Un **ciclo** è un cammino tale che il nodo di partenza è anche il nodo di arrivo.

**Problema dei cammini minimi**

Consideriamo un grafo G = (N,A) in cui ad ogni arco (i,j) sia associato un costo ci,j (non necessariamente positivo). Il costo di un cammino orientato è dato dalla somma dei costi degli archi di cui esso è formato. Il problema dei cammini minimi di radice r consiste nel determinare (se esiste) un cammino orientato di costo minimo da r verso ogni altro nodo del grafo. Alcuni cammini potrebbero non esiste se nel grafo sono presenti cicli orientati con costi negativi. In tal caso i cammini dal nodo r verso i nodi del ciclo hanno un costo che tende a -∞. Tale problema si può formulare come un problema di flusso di costo minimo ponendo ui,j = +∞ ed il bilancio dei nodi tutti uguali ad 1 tranne quello del nodo r.

Immagine che contiene oggetto, orologio, arancia

Descrizione generata automaticamente**Immagine che contiene oggetto, orologio, antenna

Descrizione generata automaticamente**

Il flusso di base x sarà sicuramente non degenere perché tutti i nodi hanno bilancio 1 tranne la radice quindi ogni arco avrà un flusso ≠ 0.

**Algoritmo del simplesso per cammini minimi**

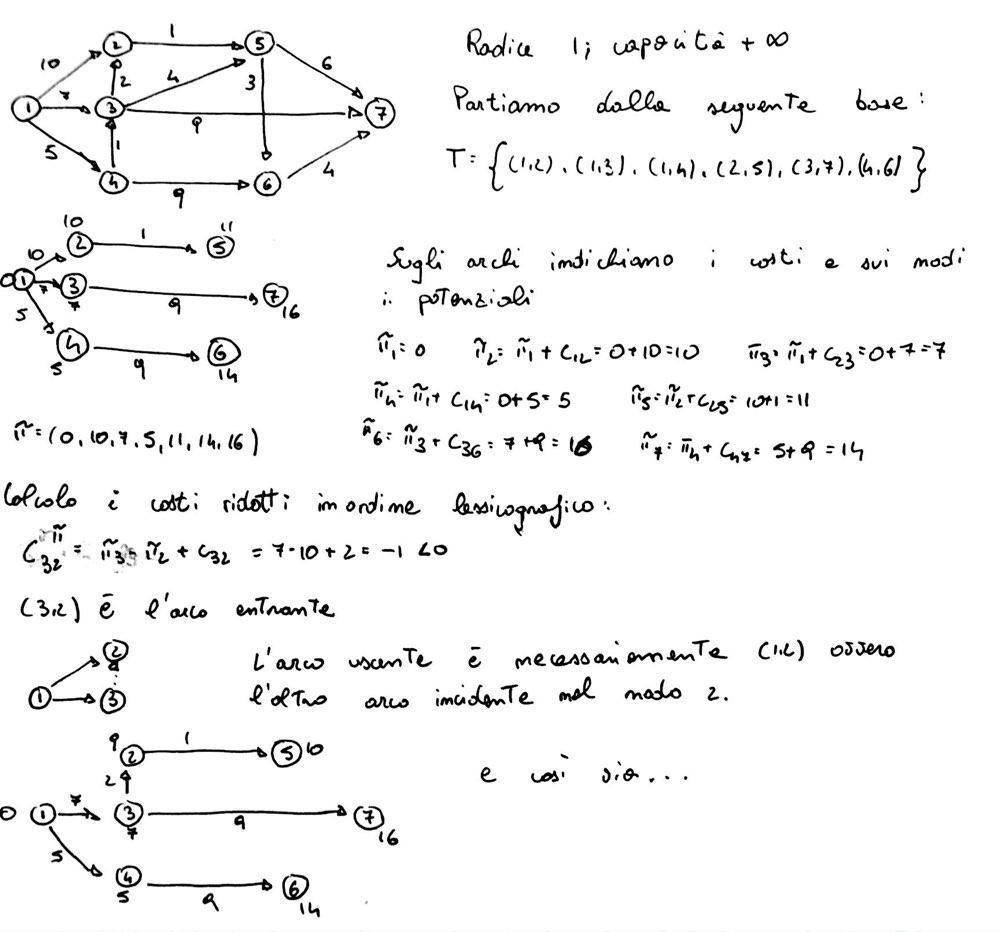
L’algoritmo del simplesso per flussi diventa l’algoritmo del simplesso per cammini apportando delle modifiche:

* Non ci sono capacità superiori: ui,j= ∞.
* Le basi ammissibili corrispondo agli alberi orientati di radice r.
* Non sono necessarie regole anticiclo perché non ci sono soluzioni di base degeneri quindi possiamo scegliere come arco entrante in base quello che ha il costo ridotto più grande in valore assoluto.
* Se (p,q) è l’arco entrante in base, allora l’arco uscente dalla base è l’unico arco che entra nel nodo q, diciamo (i,q) (tale arco è unico perché Tr è un albero), perché tra gli archi discordi al verso del ciclo formato, (i,q) è sicuramente quello di flusso minimo.

**Immagine che contiene testo

Descrizione generata automaticamenteAlgoritmo**

**Esempio**



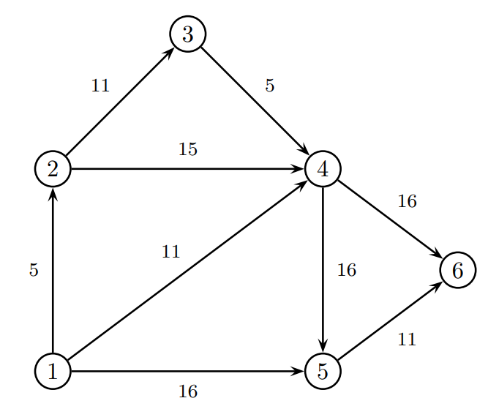
**Algoritmo di Dijkstra**

L’algoritmo trova un albero di cammini minimi in un grafo in cui i costi degli archi sono non negativi. Ad ogni iterazione l’algoritmo mantiene un albero di copertura orientato di radice r (memorizzato in un vettore p di predecessori) ed un vettore π di etichette ai nodi con la proprietà che πi rappresenta il costo del cammino da r a i cioè π è il potenziale di base corrispondente all’albero. Inizialmente l’albero è composto da archi fittizi (r,i) che collegano la radice r ad ogni altro nodo i con costo ∞ e il vettore dei predecessori è definito da -1 se i ≠ r e 0 se i = r. Ad ogni passo si cercano gli archi che violano le condizioni di Bellman e si cambiano albero ed etichette in modo da soddisfare tali condizioni. L’algoritmo mantiene anche una stella uscente U formata da tutti i nodi che potenzialmente violano le condizioni di Bellman. Inizialmente U contiene tutti i nodi del grafo. Ad ogni passo si estrae da U il nodo con etichetta minima. In questo algoritmo l’arco più costoso potrebbe essere presente nel cammino minimo e l’arco meno costoso potrebbe mancare. Può capitare anche alcune etichette restino ∞, vuol dire che non esiste un cammino orientato che raggiunge quel nodo. Si hanno al più N passi perché ogni nodo viene visitato solo una volta e possibilmente qualche nodo non viene mai visitato.

**Esempio**

Immagine che contiene tavolo

Descrizione generata automaticamente



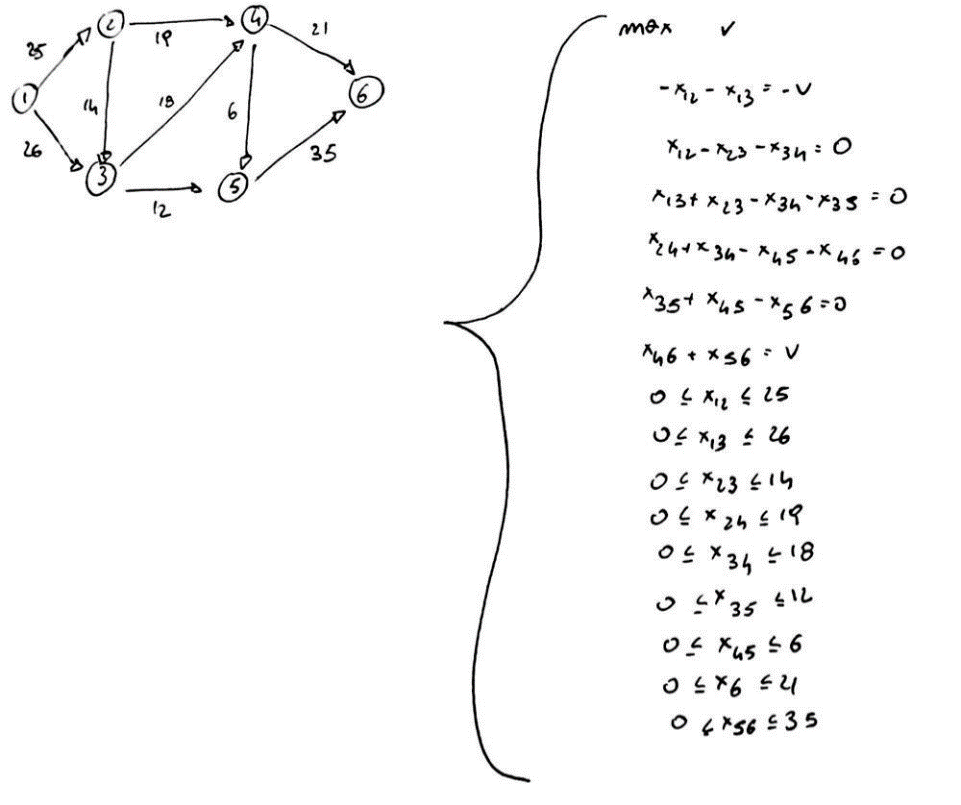
**Flusso massimo**

Supponiamo di avere un grafo G=(N,A) in cui sono assegnate le capacità superiori ui,j sugli archi. Supponiamo di dover spedire da un nodo origine *s* ad un nodo destinazione *t* il massimo flusso possibile compatibilmente con le capacità superiori definite dagli archi. Supponiamo che il grafo sia orientato e con capacità superiori intere, contente almeno un cammino orientato da *s* a *t*. La risoluzione di un problema di flusso massimo può essere usata per determinare un flusso ammissibile in un problema di flusso di costo minimo. Infatti aggiungo:

1. Un nodo s collegato con i nodi sorgenti j (cioè bj < 0) con archi (s,j) di capacità -bj.
2. Un nodo t collegato con i nodi pozzi i (cioè bi > 0) con archi (i,t) di capacità bi.

Se il flusso massimo satura (coincide con le capacità superiori) tutti gli archi aggiunti allora tale flusso è ammissibile per il problema di flusso di costo minimo, altrimenti non esistono flussi ammissibili per il problema di flusso di costo minimo.

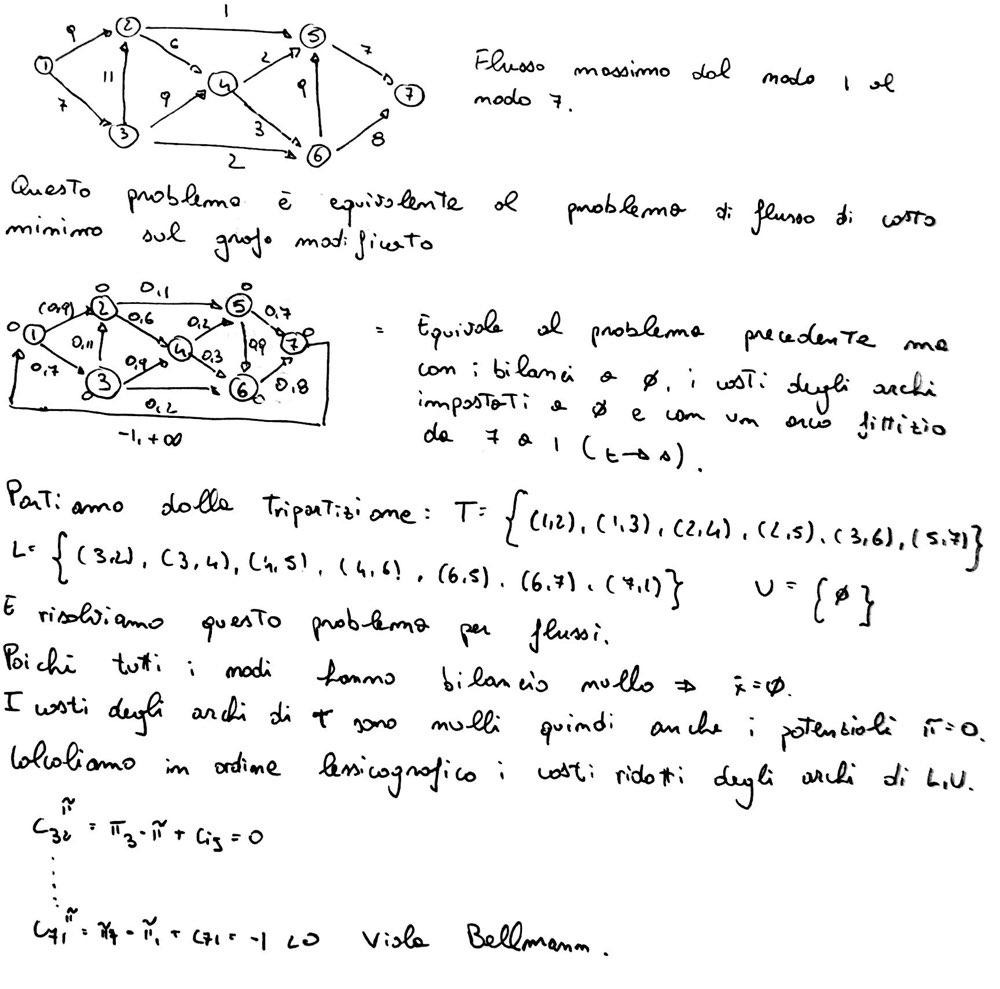


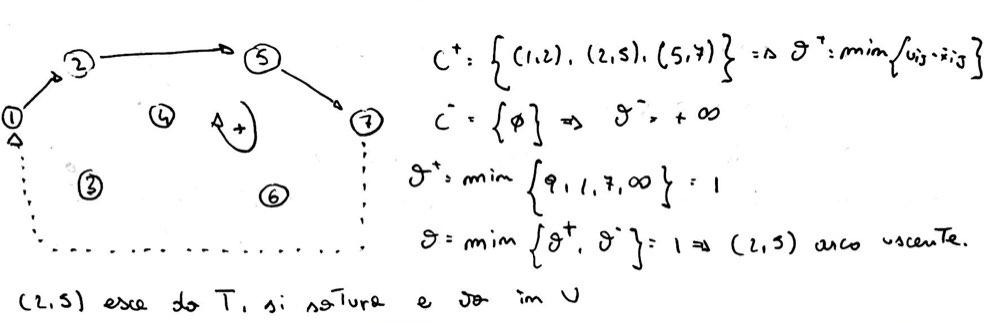


Flusso massimo dal nodo 1 al nodo 6

**Simplesso per flusso massimo**

Il problema del flusso massimo può essere risolto mediante l’algoritmo del simplesso per flussi solo dopo averlo trasformato in un problema di flusso di costo minimo, aggiungendo un arco fittizio (t,s) di costo -1 e capacità ∞, assegnando costo nullo a tutti gli altri archi e ponendo bilanci nulli a tutti i nodi.

**Esempio**



**Problema del taglio di capacità minima**

Un taglio (NS,NT) è una partizione dell’insieme N dei nodi in due sottoinsiemi disgiunti.

N = NS U NT e Ns ∩ NT = 0

Un taglio si dice **ammissibile** se NS contiene almeno l’origine e NT contiene almeno la destinazione.

**Archi diretti al taglio**

A+ = { (i,j) ε A : i ε NS, j ε NT }

**Archi inversi al taglio**

A- = { (i,j) ε A : i ε NT, j ε NS }

**Capacità del taglio**

È definita come la somma delle capacità degli archi diretti al taglio: u(NS,NT) = Σui,j con (i,j) ε A+

**Flusso sul taglio**

È definita come la differenza tra la somma dei flussi sugli archi diretti e la somma dei flussi sugli archi inversi.

x(NS,NT) = Σui,j – ΣuP,K (i,j) ε A+, (p,k) ε A-

**Lemma**

Se x è un flusso ammissibile allora (NS,NT) è un taglio ammissibile.

v = x(NS,NT) ≤ u(NS,NT)

**Teorema min cut – max flow**

Se esistono un flusso ammissibile x e un taglio ammissibile (NS,NT) tali che x(NS,NT) = u(NS,NT) allora x è un flusso di valore massimo e (NS,NT) è un taglio di capacità minima.

Il problema di flusso massimo e il problema del taglio di capacità minima sono entrambi problemi duali.

**Grafo residuo**

Dato un flusso x ammissibile, il grafo residuo (relativo a x) è un grafo G(x)= (N,A(x)) con gli stessi nodi del grafo G mentre gli archi e le loro capacità residue sono :

* (i,j) ε A , xi,j < ui,j => (i,j) ε A(x) : ri,j = ui,j – xi,j
* (i,j) ε A , xi,j > 0 => (i,j) ε A(x) : ri,j = xi,j

**Cammino aumentante**

Dato un flusso x ammissibile, un cammino aumentante rispetto ad x è un cammino orientato da s a t nel grafo residuo G(x).

**Algoritmo di Ford-Fulkerson**

Poni x = 0 e G(x) = G

Fino a quando esiste un cammino aumentante c:

1. Calcola δ = min { ri,j : (i,j) ε c }
2. Per ogni (i,j) ε A(x):
   1. se (i,j) ε c allora xi,j = xi,j + δ.
   2. se (i,j) ε C allora xi,j = xi,j – δ.
3. Costruisci il grafo residuo G(x).

L’algoritmo di Ford-Fulkerson cerca ad ogni iterazione un cammino aumentante rispetto al flusso corrente. Se esiste allora il flusso viene aggiornato spedendo su tale cammino il massimo flusso possibile pari alla minima capacità residua degli archi che formano il cammino. Se non esistono cammini aumentanti allora il flusso corrente è il valore massimo e l’algoritmo trova un taglio di capacità minima.

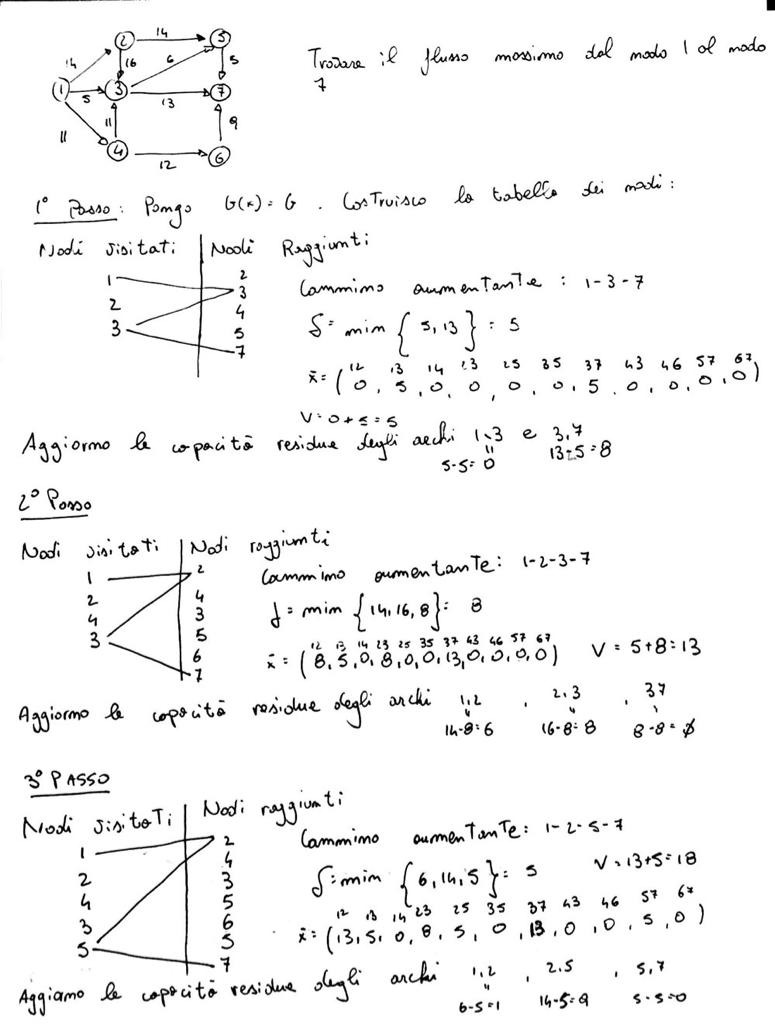
**Teorema**

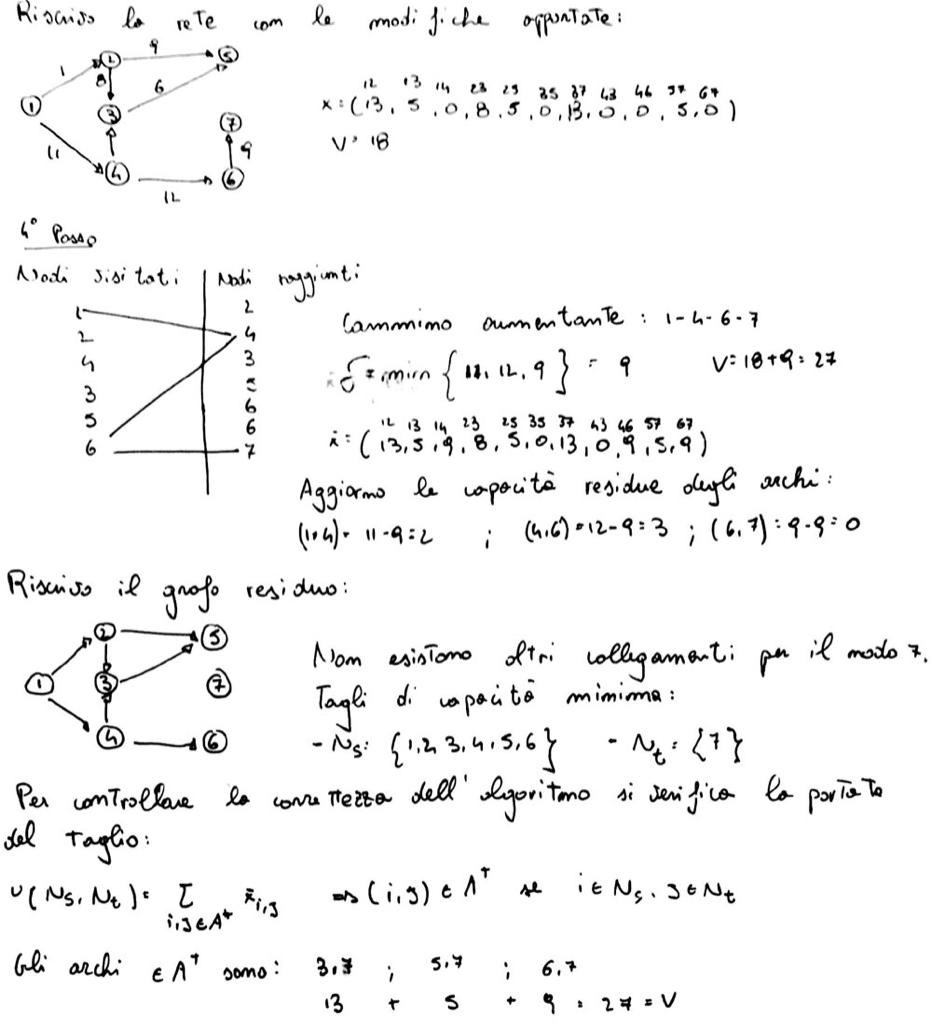
Se ui,j ε Z per ogni (i,j) ε A allora l’algoritmo di Ford-Fulkerson trova un flusso massimo e un taglio di capacità minima in un numero finito di iterazioni.

**Procedura di Edmonds-Karp**

È una procedura che si usa per ridurre il tempo di esecuzione dell’algoritmo creando delle regole precise per scegliere i cammini aumentanti. Tra tutti i possibili cammini aumentanti si sceglie quello con il minor numero di archi. La procedura è la seguente:

1. Creo una tabella **Nodi visitati/Nodi raggiunti**. In nodi visitati si mette per primo il nodo di partenza. Nei nodi raggiunti inserisco la stella uscente relativa al nodo visitato. I nodi devono avere capacità residue strettamente positive.
2. Si prende il primo nodo raggiunto della colonna e lo inserisco nella colonna dei nodi visitati.
3. Si mettono nella colonna dei nodi raggiunti la stella uscente di tale nodo tranne quelli già scoperti.
4. Si prevede un nuovo nodo nella colonna dei nodi raggiunti con una politica FIFO. Ripeto il procedimento.
5. L’algoritmo termina con un cammino aumentante quando nella colonna dei nodi raggiunti compare il nodo di destinazione.
6. Il cammino aumentante si ottiene partendo dal nodo destinazione passando per tutti gli altri nodi che hanno permesso il raggiungimento del nodo di origine.



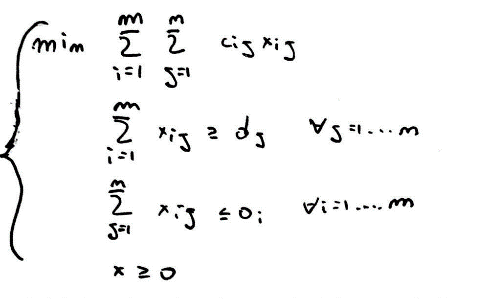


**Problema del trasporto**

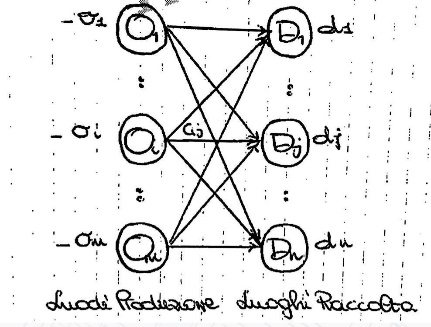
Supponiamo di avere m luoghi di produzione collegati con n luoghi di raccolta. Supponiamo che siano noti:

* Le capacità produttive σi con i = {1,…,m} .
* Il costo ci,j di trasporto da ogni luogo di produzione ad ogni luogo di raccolta.
* Le domande dj con j = {1,…,n}.

Si vuole determinare un piano di trasporto che minimizzi il costo totale compatibilmente con la domanda e l’offerta.

**Modello matematico**

Xi,j rappresenta la quantità di merce da trasportare da i a j. Il problema non ha soluzioni ammissibili se la domanda supera l’offerta. Se il bene da trasportare è indivisibile bisogna aggiungere il vincolo xi,j ε Z. Il problema del tsp può essere formulato come un problema di flusso di costo minimo su un grafo avente i nodi O1,…,Om con bilancio -σ1,…,-σm corrispondente ai luoghi di produzione e i nodi D1,…,Dn con bilancio d1,…,dn corrispondenti ai luoghi di raccolta. Gli archi che collegano il luogo di produzione i al luogo di raccolta j hanno costo ci,j e capacità superiore +∞.



Un grafo di questo tipo è detto **Bipartito** perché l’insieme dei nodi è partizionato in due insiemi (produzione, raccolta) e ogni nodo di sinistra è collegato con ogni nodo di destra.

**Esempio**

La FIAT, azienda leader del settore automobilistico italiano, possiede all’interno dei confini del Belpaese quattro stabilimenti: Mirafiori, Pomigliano, Cassino e Melfi, i quali registrano una produzione globale, rispettivamente, di 120.000, 44.000, 112.000 e 157.000 unità (dati previsti per il 2012). Ipotizziamo che queste unità vadano inviate a 5 diversi magazzini situati in diverse zone d’Italia: Milano, Roma, Napoli, Firenze e Bologna, con rispettive capienze di 100.000, 120.000, 50.000, 80.000 e 110.000 unità. I costi di trasporto delle singole unità sono indicati nella seguente tabella:

**Immagine che contiene tavolo

Descrizione generata automaticamente**

Le variabili del problema sono dunque la quantità di automobili da trasportare da ogni stabilimento ad ogni magazzino. Per brevità assegneremo i numeri 1, 2, 3, 4 agli stabilimenti di Mirafiori, Pomigliano, Cassino e Melfi e le lettere M, R, N, F, B ai 5 magazzini (in base all’iniziale delle relative città). Chiameremo queste variabili:

x1M, x1R, x1N, x1F, x1B, x2M, x2R, x2N, x2F, x2B, x3M, x3R, x3N, x3F, x3B,x4M, x4R, x4N, x4F, x4B

****Il costo totale del trasferimento di tutte le auto sarà dato dalla seguente funzione obiettivo:

**Immagine che contiene testo

Descrizione generata automaticamente**La funzione obiettivo è soggetta ai seguenti vincoli:

Ogni stabilimento può produrre al massimo un determinato numero di veicoli

**Immagine che contiene testo

Descrizione generata automaticamente**

Ogni deposito può contenere al massimo un determinato numero di veicoli

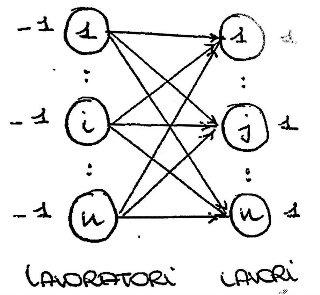
**Assegnamento di costo minimo**

Supponiamo di avere n lavori e n lavoratori che sanno fare tutti i lavori con un costo diverso. Conosciamo la tabella dei costi ci,j che serve per sapere quanto costa far fare al lavoratore i il lavoro j. Dobbiamo associare ad un lavoratore un solo lavoro in modo da minimizzare il costo totale. Introduciamo le variabili binarie xi,j. La variabile vale 1 se il lavoratore svolge il lavoro, 0 altrimenti. Se il lavoro è divisibile si può rimuovere questo vincolo.

Immagine che contiene testo

Descrizione generata automaticamente**Modello matematico**

Questo problema equivale ad un problema di flusso di costo minimo dove gli archi che sono n2 collegano ogni lavoratore i ad ogni lavoro j con un costo ci,j. È una rete bipartita.



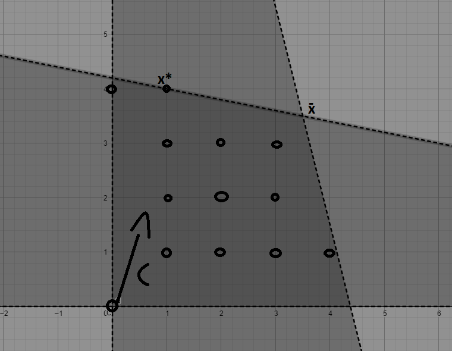
**Relazione tra PL e PLI**

Un problema di PLI consiste nel trovare il massimo o il minimo di una funzione lineare su una regione definita da vincoli lineari e di interezza sulle variabili e supponendo che i dati siano interi.

Immagine che contiene testo

Descrizione generata automaticamente

Immagine che contiene testo

Descrizione generata automaticamente**Esempio**

In questo caso la soluzione x = (1,4) è la soluzione ottima del problema con soluzione ottima v(P) = 13. Invece la soluzione x=(3.5,3.5) è la soluzione ottima del rilassamento continuo v(PRC) con valore ottimo 14. Non è corretto trovare la soluzione del RC e approssimarla per trovare il valore ottimo del problema di PLI. Notiamo che nel riquadro c’è una parte più scura dell’altra. Quella è la regione ammissibile ovvero l’insieme convesso delle soluzioni ammissibili del problema di PLI.

**conv Ω = { x ε Rn : ∃ x1,…,xp ε Ω, λ1,…,λp ≥ 0 t.c. Σi=1p λixi = x e Σi=1p λi = 1 }**

Poiché Ω ⊆ conv Ω ⊆ P abbiamo che max cx ≥ max cx ≥ max cx rispettivamente con: x ε P, x ε conv Ω, x ε Ω.

**Teorema di equivalenza tra PLI e PL**

v = max cx (x ε Ω) e v\* = max cx (x ε conv Ω)

I valori v e v\* coincidono. Inoltre se v\* è finito esiste un x\* ε Ω tale che

**cx\* = c = v\***

**Problemi di PLI con matrici TUM**

Se la matrice dei vincoli è totalmente unimodulare (cioè ogni sottomatrice quadrata ha determinante ± 1) allora si ha una classe particolare di problemi di PLI per cui almeno una soluzione ottima del RC è a componenti intere e coincide con l’ottimo del problema di PLI.

**Teorema**

Se A e b (A unimodulare) sono a componenti intere allora le soluzioni di base del poliedro

P = { x ε Rn : Ax ≤b }

sono a componenti intere. Questo teorema è importante perché permette di risolvere i problemi di PLI con l’algoritmo del simplesso cancellando il vincolo di interezza.

**Valutazione superiore e valutazione inferiore**

Per ogni problema di PLI ho bisogno di trovare una VI e una VS :

**VI ≤ V ≤ VS**

Analizziamo alcune tecniche usate per i problemi di max:

**vS)** Si approssima sempre per difetto a numeri interi.

1. Rilassamento continuo: si risolve il problema di PLI come se fosse un problema di PL rimuovendo il vincolo di interezza.
2. Eliminazione di vincoli: si risolve il problema di PLI rimuovendo uno o più vincoli (stando attenti a non eliminare troppi vincoli rendendo il poliedro illimitato).
3. Sostituzione di vincoli: si tolgono k vincoli e si sostituiscono con un vincolo solo dato dalla somma algebrica membro a membro dei k vincoli.

**VI)** Si costruisce una soluzione ammissibile in quanto è sempre una valutazione inferiore perché sicuramente è minore al massimo.

**Disuguaglianza valida**

La disuguaglianza φx **≤** φ0 è detta valida per l’insieme Ω se φx **≤** φ0 per ogni x ε Ω. Φ ε Rn, φ0 ε R.

**Piano di taglio**

Sia xRC l’ottimo del rilassato continuo. Una disuguaglianza valida φx **≤** φ0 per Ω tale che φxRC **>** φ0 si dice piano di taglio. Quindi un piano di taglio è una disuguaglianza valida per escludere l’ottimo del rilassato continuo. Costruire disuguaglianze valide serve a restringere la regione ammissibile. In questo modo i minimi salgono e i massimi scendono avvicinando così le valutazioni inferiore e superiore.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SOyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjIxIDEyOjQ1OjM1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3OAAAkpIAAgAAAAM3OAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD4W+KgX4b/8ABUP4Tarp+6FPG3h+603U4om2rK0SSsjt/wB8xf8AfFfdNfCn7QwXxB/wUw/Z2022G+603TL+9uijfdi2TbN3/fH/AI9X3XQAUUUUAFFFFABRRRQAUUUUAfNP/BQzX9X8L/sf/EO/0O6ks7xbaKJriFtjpE9xEj7W/h+Viv418k/8K18KfALx5+xf428FfZ7qy1mb+ytQ1XG57xrxE/ey/wC1/pEv/fNfo98SPAOlfFDwBr/hPWo/O0nWbSWynRD8+11PzL/tfxV+a/gb9l344+HfG3wm+D2s6NHf+B/BfjJfFNr4xik3RLZo+97f/Zbdv+X+9LQB+qf30r5otf2IvDOg/tEL8YPD+uaro/iKfUZbzUbeFla3vIpURXt2X+FPl3V9Lx7v4qfQAVwfxf8AhfZfGT4c6x4Q1K9vtOstSjRXudPnaK4iZXV1Kv8A7y13lFAHn/wZ+E+mfBX4f6Z4R0e4vbzT7DdsuNQn824dndnfc/8AvNXoFFFAH52/Gy2t/it/wVA8B+BvHJjn8G6ZobX+maTd8W95deVK/Q/Kzbl/8hV2v/BOGO0h8QftFf2UkS6B/wALAulsWtx+5ZBu/wBV/wCOV9B/Gr9mjwD+0BHpzeMNIa5vtNffZ6haTta3cH+ysqYbbXS/C34V+Fvg94PtfDfhHSodH0i3ZnWGEY3O33nZv4m/2qAPiX/gqj4o8YabrHwr07RbnxJpfhyaW9uNR1Dw7E8srSokXkxbF/i+/wDe/v8A+zX0v+xfP8QLz9nPwjJ8TUmTxV5T+b9r4uXt97eQ0q/wybNte3T28Nzs82JZNvzLuXdU6oqdKAH0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHxr+wXarrfxQ/ac8XH/AF1/4/utL/2lS13bf/RtfZVfHf7Ayx6J40/aR8NyblvrP4i3t6yN18qdU8pv/HGr7EoAKKKKACiiigAooooAK+ZP+CgnwJ1z9oL9m3WNA8NlpNdsrqLVbW03bftjRbt0X/fDtt/2lWvpuk+9QB+ZX7CPxZtfFn7aXitNN0W68Of8JB4Qt7jX9Blg8pLDVLV4oG2J/cdfn/7a1+mjLurFtvDGkWms3GrxabZw6nOnlS3scCrK6/3Wb+KtygBiJtp9FFAHHW/wt8JWfixvFUHh3TYfEbMzNqccCrcMzLtb567GiigCjqVy9rY3U8cXnPFGzrHn7zBfu1+PWl6Tofxk/wCCevx0+JWqiHVPifNryT6nqF789xaqlxbtFFF/dXymdf8Avv8Au1+yTfdNfnz8UP8AgnV4r/tz4h6V8M/F9joXgD4jT28uv6RfQM72rRXHn77d/wDf3fL/AHXb/ZoA+2fhXqy6/wDDPwlqo3f6Zo9nc/N9754Eb/2avhf9rT9qv4peEf2mtW8DeHPGPh3wD4e0HQY9cS71+BmW/f5P3W7+JmZtm3/Yav0A0HR7fw9o9jplsqpa2cEVvEi/wqiKi/8AoNeefFb9mX4ZfGzWdN1fxl4SsNc1GwCrBcTJ8+zdu2N/eXP8NAFP9lL4xax8dvgb4d8aa7oMnh3U79X821b5UbY7L5q/7L7a9lqpa28On28UFvGsMMSqqoi7VVat0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRVW8uUsrWW4kbEUSMzM1AHxP8NrO3+Kf/BT/wCJniVY/wBx4B8OWuhxP/03l+Zv/HWmWvuKvh//AIJgabc+I/BfxK+KuoKBqPjzxVdXeM7tsMTttX/vp5V/4DX3BQAUUUUAFFFFABRRRQAUUUUAFM2/NT6KACiiigAooooAKKY/3K+LvGvw4/a/8X+NvEV5o3xJ8PeE/Do1CVNJsYrNJX+y7/3TO2z723/eoA+1Kp3l9BYWz3F3cx21uo+aWZ1RF/4FXx18If2gPir8Ov2gtD+Cfxqg0vWtR120lutE8S6MNq3Cxo7sksX8Pyo3P/oX8Pln7VV94q/ag/bc0j9nV9ZufD/w/s7BdU1H+y5cS3TeR5+9/wDgWxFT/gX8VAH6KzalaW8kEclzCklw22JZJVVpf90fxVfr8Q/hT+zN8eP2h/hzr/in+3fEr654GubXTfCllqFy0XmOkv8ApAVn+75Sov8AwL5f4a/Z3wg2rN4V0d9eSNNd+xwfb1hbciz7F83Y393duoA36KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD4t+OWma9+yr8fr349eHtLuNe8C+ILWKy8b6TYruuImi+WK9iT+LYn3v8AgX9/5fefDf7S3w38XfCq/wDiNpviezu/CthbNdXd0j/NbKo3bZU+8r/7Jr1KaGO5jeKVVeJ/lZW/ir5V+I3/AATb+DXxE1+TVf7Ov/DgupfNv7LRLpre3vf9lov4f+A4oA+k/CPirSvHnhbSPEei3K32k6pbRXlncJ/y1iddyGt6sbwx4d03wjoGm6DpFtHZ6XpttFa2tvH92OJFCoo/4CorZoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvNf2ivEDeFfgH8RdZiRXez8PX86q38TfZ3r0qvMf2lfDdx4u/Z8+JGi2Shru/8AD1/bxL/ecwPtFAHm3/BOfw+/hv8AYw+GUDhd9xYy3v8A39uJZV/8dda+l6+Yv+Cbvi6Lxh+xv8PZFG2XT7aTS5U/2oJXT/0HbX07QAUUUUAFFFFABRRRQAUUUUAFZ2qxrLp90jTm2Ro2Xzlbb5fy/erRrD8T6HF4p8N6ro080ltBqVrLZyTQttdVkQruX/a+agD8vf2Ef2gPiZ8VvjvH8PtR+Lt2vhjRJLi405bqziluNdt4pz+681ufuf73y/7tfq6tfNln+wn8Mo/hb4I8EXllcXUXhJvMsNWila3vmZnZpd8sW37+/wC7X0iq+Wu1aAPFfEv7Q1rpf7R3hP4RaZpL6xqup6fPqmp3ccyoul2qKdjuv8TO+1dv+0pr22vyz/ag+FN/4b/bR8V+PvGHgTxp4v8ACWraZapo1x4OmZX81IokaKVk+ZfuN/4596vvX9nrxd408eeA01Xxt4Tj8E3csv8AoGk/avtEy2e1PKaf+7L97igD1evJ/wBpP462n7OPwl1Xx5faXc6zaadLbxS2towV/wB7Kqbv/H69Yr8+P27PiZ4e8XftCeBfhB418QQeHvhrZ2v/AAk/ih7lnRb5Vdvs9r/tfOn8P9//AGKAPH/2XP2hr74v/tmS/EvxV4C8UanqetNFo3hj7HbM9jo1m5dZZnlZdrbV/i/23r9MbH4U+E7H4kX3juDQ7NfGF7apZXGrbP3zRLt+Td/wBP8Avha+cfgj+15d/Gz4oeH/AA78Lvhfe2vw1tY3S+8TanbfZYoolibYluq/7aqlfYlAFeGGOFdsarGv3tqLtqxRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUEkazRMrLvVl2stT0UAfnd+zX8SNL/AGJPjB4/+CfxAu08P+GdS1WXxB4U1i8Gy3lglwrRbv8AgC/98N/eWvseT9o74Vw2P2xviL4Z+y/89P7Vh/8Ai6v/ABK+C/gj4x2MFp408Mab4hhgbfF9ugV3ib/ZavGf+Hbv7Pv23z/+EAtvvb/J+0y+V/3zvoA998H+OfD3xA0n+1PDWt2Ovad5jRfatPnWVNw/h3LXSVzHgn4f+HPhr4fg0Dwvo9noWlwfMlpZRKiK397bXT0AFFFFABRRRQAUUUUAFFFFABRRRQAzatPoooAK4zxd8JPBnjzWNP1XxF4X0vW9TsFZbW4vrVJXi/3d1dnRQBSs7C30+3SC2hjt4UXascSbVWrtk=)

**Piano di tagli di Gomory**

Supponiamo che il problema di PLI sia nella forma:

Immagine che contiene testo

Descrizione generata automaticamente

Supponiamo che B sia una base ottima del rilassamento continuo del problema di PLI.

Poniamo A = (AB,AN) xRC=(xB,xN) b° = xB° A° = AB-1°N

**Teorema di Gomory**

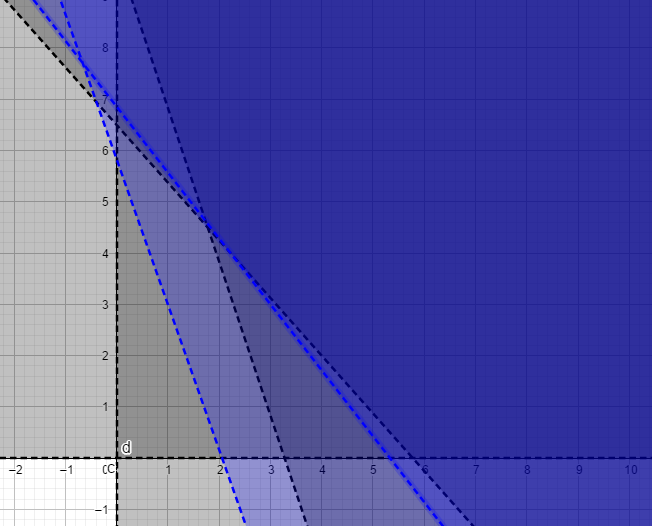
Sia r l’indice di una delle componenti di xRC frazionaria : r ε B, xRC ∉ Z. Allora la disuguaglianza:

**ΣjεB {arj}xj ≥ {br°}**

è un piano di tagli di Gomory. Si possono fare tanti tagli di Gomory quante sono le soluzioni frazionarie di xRC.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4UJyRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjIxIDEzOjQxOjU4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyMwAAkpIAAgAAAAMyMwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Le parti in blu sono le disuguaglianze valide

**ESEMPIO PER PROBLEMI DI MAX**

**![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4T1GRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjIyIDEyOjU4OjA4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1MAAAkpIAAgAAAAM1MAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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NrFC5BUAlSWLY3FjsXqccdMmtOgAowPSgAooAKKACigAooAKKACigAooAKKACigApodN5QMNwAJXPIB6fyNADqKAEOCMHkGkVVRAiAKoGAAMAUAV7rUILO6s7ebeGu5DFEQpK7gpbBPbIU4z6VXu9e02y+3rNcASWFubq4jCkssYBO4DuOD07jFAEg1S3j0ddTvJYre38oSu5kBRARn73Qj36U/TdSstX0+O+0+4S4tpQSkidD2NAFfTdf07Vbm4tracfabeR45IX+V/kO1iB3XPGRxWPqni02+lDUrVAsMN+ba5E0TFgisQ7DHT5QWB54xxk4oA6pSGUMOhGRS0AFFABRQAUUAFFABRQAUUAFFABRQBQ1fTv7VsktvPaHbcQTFlHJ8uVJNvXvtx+NYmp6NqdjaabLpl1eXEmmxJClsjKv2jorPJllVsL8wHHOfUYANjULGfVbS1CXl1p7xzxTuIiu5gpBMbdeD0OD+JGQcjUtF1K7k1m1tpntft7RTxXyYOwII1aIgnPzbWwQCPnbPTBALFroF/FrGp3zaqYxfLD8sMKl4igGQHfcCp+b5doA3ZGCSxYfDE0fiO21WDUCNgnWZXiDPIshJC7+oVWwQPYe+QDQtNLnitYrW6vri5jgWMRytIVldlzkuVxuzxkdDjkVUsPDZtNO+zTajdSubhLgyK5QllVRjqflJXcR0OSDwSKAHppOoto+nW17exXV3bTxySXIiMYcK2eFy3JHB57k8dKuNothJJfvJE7/b08u5R5XKOu3bjaTgcccAZoAs21pb2lnFaW8Sx28SBEjHRVAwBS21nbWURitbeKCMsWKRIFGT1OB3NADhbwiVZBEgkUMFbaMgMQT+ZAz9KSS2glVVkhjdVYMAyggEdD9aAJaKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKAP//Z/+Ex6Gh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRvclRvb2w+V2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NDwveG1wOkNyZWF0b3JUb29sPjx4bXA6Q3JlYXRlRGF0ZT4yMDIwLTEwLTIyVDEyOjU3OjQxLjUwMTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAg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**Metodo del Branch & Bound**

Il metodo del branch and bound comprende una classe di algoritmi risolutivi per i problemi di PLI del tipo:

Immagine che contiene testo

Descrizione generata automaticamente

Si utilizzano anche per problemi di ottimizzazione combinatoria (x ε {0,1} ). I due modelli sono equivalenti. Supponiamo che il problema di PLI abbia una regione ammissibile limitata. Questo implica che ha un numero di soluzioni di basi ammissibili limitate quindi potremmo calcolare l’ottimo confrontandole tra di loro. Esiste un modo per esplorare tutte le possibili soluzioni ammissibili ovvero quello di costruire un **albero di enumerazione totale:** ha per radice il problema (P) e facendo una partizione della regione ammissibile Ω in due o più sottoinsiemi Ω1,…,ΩP si ottengono i figli del nodo radice che corrispondono a sottoproblemi di (P) aventi come regioni ammissibili Ω1,…,ΩP. Se ho n variabili avrò 2n foglie cioè soluzioni ammissibili quindi è troppo dispendiosa. Il metodo del Branch & Bound è una strategia che esplora l’albero di enumerazione totale senza necessariamente enumerare tutte le foglie.

**Tecniche di bound (valutazione)**

**VS)**

1. Eliminazione di uno o più vincoli.
2. Somma di vincolo.
3. Rilassamento continuo.

**VI)**

1. Algoritmi greedy che trovano soluzioni ammissibili.
2. Restrizione (si aggiungono vincoli).

**Regole di taglio per le tecniche di branch(visita implicita)**

Sia x una soluzione ammissibile di (P) e VI(P) = cx:

1. Se VS(Pij) ≤ VI(P) => **TAGLIO.**
2. Vuotezza => **TAGLIO**.
3. VS(Pij) > VI(P) e non scatta la regola di vuotezza e se VS(Pij) genera una soluzione ammissibile x => **TAGLIO E AGGIORNO** VI(P) = cx = VS(Pij) .

Ad ogni passo quindi si calcola VS(Pij) ed il GAP viene ridotto trovando una valutazione superiore sempre minore oppure una valutazione inferiore sempre maggiore.

Grazie a queste regole il Branch & Bound termina con la soluzione ottima senza esplorare tutto l’albero di enumerazione.

**Branch & Bound per problemi di minimo**

Tecniche di bound:

**VI)**

1. Eliminazione di uno o più vincoli.

2. Somma di vincolo.

3. Rilassamento continuo.

**VS)**

1. Algoritmi greedy che trovano soluzioni ammissibili.
2. Restrizione (si aggiungono vincoli).

Regole di taglio:

1. Se VI(Pij) ≥ VS(P) => **TAGLIO.**
2. Vuotezza => **TAGLIO**.
3. Se VI(Pij) < VS(P) e non scatta la regola di vuotezza e se VI(Pij) genera una soluzione ammissibile x => **TAGLIO E AGGIORNO** VS(P) = cx = VI(Pij).

Ad ogni passo quindi si calcola VS(Pij) ed il GAP viene ridotto trovando una valutazione superiore sempre minore oppure una valutazione inferiore sempre maggiore.

**Problema di caricamento (zaino)**

Dato un contenitore di volume V e n oggetti aventi ciascuno un valore ci ed un volume vi dobbiamo scegliere quali oggetti inserire nel contenitore e in quale quantità in modo da massimizzare il valore totale degli oggetti caricati. Il problema può essere visto in 4 modi diversi:

1. Beni divisibili e senza vincoli di quantità:

Immagine che contiene testo

Descrizione generata automaticamente

1. Beni divisibile e si possono caricare al massimo 1 oggetto per tipo:

Immagine che contiene gruccia

Descrizione generata automaticamente

1. Immagine che contiene testo

   Descrizione generata automaticamente Beni indivisibili e senza vincoli di quantità:
2. Beni indivisibili e si può caricare al massimo un oggetto per tipo:

Immagine che contiene testo

Descrizione generata automaticamente

Il vincolo x ≥ 0 garantisce che il poliedro abbia vertici. I primi due problemi si risolvono con il simplesso primale, gli altri si risolvono con il branch & bound.

**Risoluzione con il branch & bound**

Iniziamo definendo il **rendimento** **di una variabile**: ri= ci/vi (valore/volume)

**Immagine che contiene gruccia

Descrizione generata automaticamenteImmagine che contiene testo

Descrizione generata automaticamenteProblema a variabili binarie:**

Rilassamento continuo =>

VS) Consideriamo il rilassamento continuo:

Si usa **l’algoritmo dei rendimenti** per x ε {0,1}.

1. Si calcola il vettore dei rendimenti **r** e si ordinano i rendimenti in ordine decrescente.
2. Inserisco il bene di massimo rendimento ad ogni iterazione calcolandomi il volume residuo dopo l’inserimento di ogni bene.
3. Quando inserisco un bene si possono avere casi diversi (k indice rendimento massimo):
   1. V/vk = 1 allora V = vk quindi xk = 1 e lo zaino è pieno quindi non inserisco più nulla.
   2. V/vk > 1 allora V > vk quindi calcolo il volume residuo V - vk e passo al bene successivo.
   3. V/vk < 1 allora V < vk xk = V/vk e non inserisco altri beni.

VI) Algoritmi greedy per x ε {0,1}

1. Inseriamo gli oggetti nel contenitore seguendo l’ordine decrescente dei rendimenti controllando che venga rispettato il vincolo di capacità.
2. Ogni volta calcolo il volume residuo e cerco di caricare il bene successivo in ordine di rendimento. Se non ci entra vado al successivo.
3. L’algoritmo termina quando lo zaino si riempie del tutto oppure non ho più beni da inserire.

Tale algoritmo fornisce una soluzione ammissibile x° che non è necessariamente la soluzione ottima.

VI(P) = cx° dove xi è 1 se il bene è stato inserito nello zaino, 0 altrimenti.

**![Immagine che contiene testo

Descrizione generata automaticamente](data:image/png;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TwGRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjI2IDEyOjIyOjM4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1OQAAkpIAAgAAAAM1OQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Z1AYhCMcdOe/agCHw9PrEqMmoocRSzRs8i4Z8MPLKnaoK7c87RyB9Tu0AFFABRQAUUAIy71KkkZ9Dis240HT7nbujlj2qFxBPJFkDpnYwzjtmgC5aWdvY24gtohHGCWwO5JyST1JJJJJ5JNZOq6vcwazb6YNOumtblAGvoMnyiSRjGD3289gc9qAOc0/SLLWTNBZ2iqLOVbm1uLmN1eJ5MsfnR8yYI5BI7AkkZrp30WWKDzbS6A1IFm+0zJuDlsBgygj5flXgEY2r6cgHHXUkPh3ULSxi0xI7qW7ikHkXrEM4XYu793xuGFxx1AyBXX+F5bSXRylvN5zCV2uTjGJnYySLjnGGc8ZOOmeKAKc+k6ratHHYJGyRKY4pVuvKcR4YKjAo4bbng98cj11NIttQjWWfU2g+0y7QVgJKqFGOpAyScnoMZA7ZIBp0UAFFABRQAUUAFFABRQAUUAFFABRQA1UVWZlUAscsQOtOoAiktoJZEkkhjZ0OVZlBI+hpYbeG3DCGJIwx3EIoGT68UASUUAFFABRQAUUAFFABRQB//ZAP/hMehodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIj48eG1wOkNyZWF0b3JUb29sPldpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQ8L3htcDpDcmVhdG9yVG9vbD48eG1wOkNyZWF0ZURhdGU+MjAyMC0xMC0yNlQxMjoyMjoxNC41ODY8L3htcDpDcmVhdGVEYXRlPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgI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& bound**

Durante l’esplorazione dell’albero di enumerazione totale se non è possibile chiudere un nodo Pij allora istanziamo la variabile che ha valore frazionario nella soluzione ottima del rilassamento continuo corrispondente a Pij

**Esempio**

**![Immagine che contiene testo

Descrizione generata automaticamente](data:image/png;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4UIgRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjI2IDEyOjM3OjM0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMzOQAAkpIAAgAAAAMzOQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/AP1TooooAKKKKAOY+IXxA0b4X+DtS8TeILhrXSdOiEs0scTSsASFAVF5JJIH41yvwr/aF8E/GHUtV07w/fXEet6WFN7pOpWktleQo2ArtHIoYqcjBAwawf20LxNN/Zd+Il9u/wCPLTDdquQAzRsrKOexKivAdO+MU/7QHxY+Dvifw58L/GnhDxhb6iItT1HVdHaGzbRZYHNxG9zkLIhOxox134I4oA+7M0tMjp9ABRSMwXknA96Z5nagCSiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/GT/AILVR7f2hvBzDnd4ZX/0qnoqT/gtQCf2hPBnH/Mtr/6VTUUAfsvRRRQAUUUUAfOv/BQTTJdW/Y5+KMUMphePSzcFvVY3V2X6EKR+Nd/8B/FFvrnwB8A67LNFDbXHh2znkfzAsaAW65Oew4P5V3mraRZ65p9xYX9rFe2VwhjmgnTckin7ysD2Nef/ABU+FEfiT4DeJ/h94cit9EivNCuNJ0+OGMJHb5iZIlCjgIOO9AHo8N9BPCk0MiSwyKGSSNgVYHoQR1B7VYr5a+B/gT4neC/ij4D07WFuLLwLpHw7t7GawtJxJZrqwlUS7s/Mz7RkN6CvqRfuigDB8WSKPDt+P7YXQjLGYU1NioNu7kBGy3HUgD3IrQ06GWCxt4ZbhrqVYkDTsADKR1JA6Zqj4q8J6T430G60bXtPj1TS7tAJ7O4XckgDBhuHqCo6VrWtutrbxwoCsartCk5/WgCemscLTqa33aAKsWrWk13Pax3EUl1AAZYVkBeMHoWXqM+9WI5N3U+9fEX7R3wM+I/xU/ajsdf+GF2PBt34d0SGS/1O6aaK11+TzXaOylMTDeqrkMW3EeZ7V9d6XrF/pvg+DU/ElvBpl9FaC41CC2mMsULhN0oVmxkDnH0oA6XcB3FAYN0INeE+LvjDL4+/ZZvfiN8Pr7U9Le6037fpc8ekfa7sbX6C2I+bIBHH8J3dK1/2Y9Y8YeJPhDper+NtWuNV1i/DTFrrRBpM0SdPLaAs2OQTn3oA9YmvIrZS00qRKOrOwAHX1+h/KnLcK4BVgwPQg+2f5V+dmreMNL/aW+IPxN8L/H7xda/D/wAO/D/V3On6JZ376XPeRNuVbiViQZVCKpTb3fmveP2ALTVrP4I3kc2o6nrHhn+27z/hF9Q1gMt5caSHURM6tyoJD4B5III4xQB9Q0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAflj/wVX/Zt+J3xk+MnhXWPBfgvVPEul2+hfZpJrGMSBJfPlfBB5H3xx7UV+pm35s0UAOooooAKKKKACmsm6nUUAN2CnUUUAFFFFABRRRQBH5fXjn24Jrxz9rD4c+Mvit8D9f8ADHga/g03W7/ZGWuZGhjng3jzoC6jcnmLkbu2a9npOtAHk3wR034habpiW3ivRfDPhbSLW2itdN0Lw/NNdG1SP5cPM4QNkDjCcd69UEeFwBgYxyBwPQAVLtFLQB554z+AXw6+IXiCy1vxP4K0bX9Xs8GC8vrNJJFx0B4+YD/azXdRwrCoVE2ooUKFHA9gMYAqzRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRSZoAWikpaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAopu9ePmHPTmjevI3DgZPPSgB1FFFABRSZo3AZ56UALRTS6jqwH4+vSl3A9D70ALRRSbhwM8mgBaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKTcPX2oAWiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoopGoATzFyBuGT0560u4dMivlj9vj4WeN/i54G8F6P8PrrUtK8T/8JJCU1ixuJIY7GLyZQ8s7INwjx6DG7b6itv4I+MvGHwt/Z/1P/hbWi3Gm33gqykW71RtRF8mrwxR7vtaSN8xL4OQ+Me1AH0XupQwPQ5r4o+G/7WHxU17xh8Nb3XdB8KQ+EvH975GnaJp17JJr1hatEzpczKPkMa4G7jjPOK+ttJ8aaFqviDUvD9lq1pdazpaRteWMUitJahx8hdRyA2DjPXHFAHRUm4dcjGM0zz0xneuPrXj0H7Qljc/tKXfwi/smdLq30dNX/tWSULHIxfBiVDySBzuHFAHslc7408feH/h7oM+s+JNXs9E0mFlR7u9lWOPcxwq8nqT0HeuhX7tfIH7QunW/xZ/bM+Dvw11t1uPClhpt54sudNbO25uYXMcIf+8oIJwfQ0AfW+n38GpWkNzbTLPbyjKSKchh6g1ZyKhjhSFQqBUCjaoQYC/QV8+/tcfFrxJ8Lbj4QxeH7lbOPxD43sNH1GRoVlD2sgcunzdCdvWgD6I3DrnijNVJr63sFJnljhRRuLSMFAHrzU0dxHMoaNldWAYMpyCD0NAEjOq4yQPqfwo8wc+3Xmvk34r6n4u/ak8Ya14E+E3xJk8AWHhGfyfEmuWdsz3D3bg7LWIhlyFCsXIbqV9q6n9iHxX4y8V/BqQeNtTbXtT0fW7/AEeDXNuwanbQy7EuB6g4I3DjigD6KzRuHrTFlVs45x1x24zVXUpZLfT7l4VzMsbtEOxYLwPzoAu7h6ilrwD9in4va98bvgHpPinxNPDc65Le31tcSW8AhH7q5eMDaDxwFr3+gBM0tVbLUbbUFdreaOcI7RsY3DBWBwVOOhB6irOaAKOpa1p+jrA19eQWizzLbxGeVUEkrHCxrk8sT0A5NXtw9a+Mf+CgXjLR7LxV8BtD1TxBa6PaP43tL6/LXaxvDDFyjuMgiMngsePevqzwt8QPDHjWO4Ph7xDpOvC3KrN/Zl7Fc+UT0DbGOM9s0Aa66patqDWIuoTfLEJmthIPMEZJUOV67SQRnpkGrlfJf7U1uPhn+0H8D/itBI9sraq3hTWNvEctrdoyxF2z1SXaQfevrJegoAdSd6ihhMTN8xbPrU1ABRRRQAUUUUAfO/jz4p+Ivhz+1Z4L0bV7yP8A4Vr4w0yXTrPdbgeRrKtvUGXqBLEWAHqDir/xo+PF/wCB/jH8KPh14f0+21LWvFl9JJexz5xa6fEjGWZcdCTgDPWtX9qX4Ht8fPhLf+HrO6GleILWePUtE1Jgf9FvoTuifjkA8qfY18l/CnUPH/wr8TeL/jt8ctDuL34maokfhjwp4O0yINcXfljLm2RckByNxYDG3eehFAH6K+YPUfnT68w+B/ir4geMPBy6p8RPCNn4K1SaTdb6TaX32t44SowZW2KFcHjavNen0AZ+rataaLpt5qN7OttaWsLXE8zcBI1UsxPoAASfQVxPwV+KM/xg8Fp4mbw9e+HrC6mY6ct8yeZeWpb9zc7V+4si4baeQMVxn7Z2sfZvghc6JHuabxVqth4bjMbbWH2q4SJ8H/c3/rXs2kaTa6JplnptnAsFlZxJbwRKMBY0Xaq/gFFAHm3xe+PkHwr8Q6F4esvDWr+M/E2sxXFzaaPovlibyYUDSSEyOi45AAznmtv4N/F3QvjZ4Ki8SaAZkhEr2t1aXUZjuLO6THnQSqejrn9RXyj+31op8UftFfs4aPZ+JdR8F6rf39/bxeINL4ntsxJ5YXPB3SBQVPY19Lfs/fBcfA/wzqdlda9P4n1rWNSm1jU9XuYUhNzcy7QzBE4UH0oA9YzjrXD+BPjB4X+JWseK9I0LUftOq+F746dq1nJE8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CiiigAooooAKKKKACiiigApj0+igD5p+NHxu8S/B/8Aac+Ful30kP8AwrnxlFNo8hdcNbakrboZN3owKDHfmsj9vrxtqbfDvSPhb4WmCeMfiPqC6JaqGO+K163M2RyoVcDPQbz6V0v7cHwN1L46fA+6sPDqgeLdGvIdZ0YscEzwvkqG7blLD8BXlX7I/wANPiD8VPi9qXx7+MWlyaLryW40jw7oUgb/AEGELiWbaR8u/wCb3+ZvUUAfVnw78D6Z8Jfh3ofhjT3ZNL0SxS3SSdifljHzMxJyT1Oa4r4BftFab+0N/wAJRe+HtJvofDuk3/2G11mfiLU2XhmhGPug8E9q9G8a6JN4m8Ia5o8EzW8uoWM9qky8GNpI2QMPoTmvlL/gm740ttJ+Esvwk1qNdI8eeDLy4tL7TJV2yzIZXKXCf31IJywyOnNAHyD8NfHPhO++B/xm+GOqfCy+8Z+LbPxBfx2uo6RYeZO087yLDK8n3o9rKK/Rn4f/AA71jxN+ybpXgv4lxpPrFz4ZGnassnzYPklQWJ6sMKc+orjP2Xf2bdb+B/xw+N2s3CwHw34q1SPUdLkV90nzFpJAwxxhn4r3v4kapb6D8PfE+pXDrDBaaZczSyE4ACws2c0AfOf/AATD8QX2tfsm6FbX0vn/ANjahfaTBNzloYpjsznsFbH/AAEV9DfFTxk/w/8Ah3r+vwpBLd2NpJLbw3Uoijmm2/IhY9NzYAHcnFeAf8Ex/Dsugfsd+D5psiTVLi81Mbhg4kuHC5+qgEeoINfQnxF+HOgfFbwhqHhfxRpqarod+gjuLR+jANuUg9QQQKAOE/ZyX4sX/hf+1vinqmjXN3qESSw6Xo9sBHZ56q0mfnP0rgP2wv2c/BfxY1Hwv4x+Iviu40DwR4UimbULP7Q0MNx5hQRksCNpDccdjX0B4C8B6P8ADXwnpnhvw/Zmx0jTo/Kt4WkaQqv+8xJz9a5n9oLxN4A8K/C3V7/4l/ZH8HL5cd6t3GZEYvIqINo77yPyoA+dP+Cb+o3F9Z/FOPRNW1DWfhXa6+1t4WutSlMshjVMyhCefLBIxWr+0n8SPEXhr9tL9nPw7YatLY6Fqk199st42AW5YxsoDZ6gEKB7kVxH7IOseGPDH7aHxR8F/Cy7hvfhjeaLaaz5dg/mWlnffKpVCMgblbJ56qfStf8A4KYafL4Rh+EHxbSLfaeB/FME+oLGPnMEjpkg/VOn+1QB9vqwwTkU6s3R9Wt9d0uy1G0lE1rdQx3EMqnhkcZB+mK0qACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAqXthDqVjdWlzGJbe5jaKWNhwykbWH4ivE/2Tf2aV/Ze8J+JPDVrqf8AaOkXutzajp8bJg2sDhcRH1xjrXu9FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFJtFLRQAUUUUAFFFFABSdaWigBoXb0AFOoooAKRqWigDxj9pL4At8bNA0q50rU38P8Ajbw5eDU/D2txgk2lwBgqw/iRhwRXSfCO+8d6p4YeL4h6LY6XrsEnktJptwZ7e7wuDMoIygJ/hNeh0UAfKGt/8E2/g5rvjk+IbjS9RFmbs3raDHdsunmY8s/k+57V9Nw6BYW+jrpUdnFFp6wG3+zRxhYxGV2lQB6itSigDyr4A/Auw/Z+8I3fhfRdQvb3Qmv57yxs7tVP9npI24wRt3UFjgmk1X4B6Rqfx+0H4sLcT2+t6bpFxpD26gbLmKVt2ZD6qemK9WooA8v+PPwN0r4/eDbLw7rN3dWUFpqlrqsc1soJMkD71BB7EZBr0tY9q7e1S0UAYlr4R0ix8RX2vwadbw6xfRJBc3iJ+8mjT7qsfavNNX+AceqftM+HPi7HqBgm0vQrjRJrBoiRKruWV1PYqS31Br2aigCJl+XG3IxtxXxev7Ivxe+DeoeKLH4HfEHTtA8I+IrxtQOmaxaNNJp0z/faB+gB9K+1aKAPnj9m39kXT/gXrmteLtU17UPGXxC11ETUtf1JssyghmjjH8Klh+SivLP2z/B/x8+MkuofCzQPC+l/8K88QXdmh8SxXBE9tbhg04mj9MqMetfbVFAGH4N8NW/gzwnomgWgP2PSbGCwg/65xRqgP1wtblFFABUci7l29sYwRkH61JRQB8h6n+xH4n8I6xrcnwh+K2rfDjQtZu3vLrRIoEmt4p3b5nhz90H0rxy3/wCCOum6T4usNe0n4p63a3kMjXEl21pGZxNnPmIc4B3c81+j9FAHya//AATx8D/8KS8U+A4NR1RNT8UPBLrHieaQTXt48UglG9mPK7gRgdjWl8Yv2DfBPxa+E3gH4evc3ujaD4RnWS3WzALzrsw+8kfeYA/N6mvqCigD5w+N37G+gfET4Gaf8NfCYtvBGmafqlrqdv8AZoNy7oeoZe5PrmvoqJWSFVc72C4J9alooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBrJupoX5SMcdgRx+lSUUAM/irEHg7R28RL4gOlWY1vyPs51AwgzmP+55mM7frW9RQAxVxVLVdJtda0+5sb6BLqyuY3hnhlXcskbLtZT9RWhRQBl6B4e0/wAK6TZ6TpFlDp2m2kaxQWtuu1I1XoAK1KKKACud8b+B9F+I3hm+8O+I9Lg1bRb6Py7i0uV3RuM/oRjIPrXRUUAec/CH4B+BfgVpU1h4H8NWegRXGGuHhjHmzEdN79wPSur8SeE9L8YaXLput6ba6vp0pBks76BZo2IO5ThuODW3RQBVtrVLO3ihijWKGIBI4kXCooG0AewFWqKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigApM0Z79qbvHpQA+ikzS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBH5uWxg49aPMqtqUjJGm04+auEGuX//AAuSPTftUn2E6F9oMGfl8zf9760Aej7gc4IOOtLVOP8A4/pKuUAFFFFABRRRQBWlmkj2AJvDNg4HQVkeMI9SXTVuNLbN3BKsvl/31H3l/Gt/aKYo3deaAIolEm2UqyNtxtPFWaTaKWgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/2Q==)**

**Problemi a variabili intere**

Immagine che contiene testo

Descrizione generata automaticamenteImmagine che contiene testo

Descrizione generata automaticamente

Rilassamento continuo =>

**VS)** Consideriamo il rilassato continuo:

Si usa l’algoritmo dei rendimenti per x ε Zn

1. Si prende il bene di massimo rendimento.
2. Si carica lo zaino il più possibile con il bene di massimo rendimento.

**VI)** Algoritmo greedy per x ε Zn:

1. Inseriamo gli oggetti nel contenitore seguendo l’ordine decrescente dei rendimenti controllando che venga rispettato il vincolo di capacità.
2. Inseriamo gli oggetti nella massima quantità possibile. Se il bene di massimo rendimento non entra nello zaino, passo al prossimo bene per ordine di rendimento.
3. L’algoritmo termina quando lo zaino si satura oppure finisco i beni.

Tale algoritmo fornisce una soluzione ammissibile che non è per forza la soluzione ottima.

**Commesso viaggiatore (TSP)**

Consideriamo un grafo orientato completo G=(N,A) in cui sia definito un costo ci,j per ogni arco. Se |N|= n allora |A|= n2.

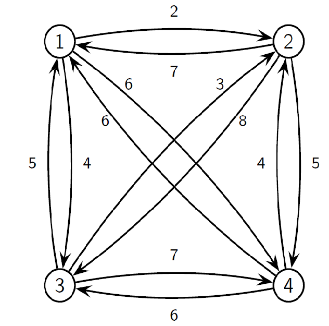
**Ciclo hamiltoniano**

Ciclo orientato che passa per tutti i nodi del grafo una e una sola volta. Il suo costo è definito come la somma di tutti gli archi che lo compongono. Il numero di cicli hamiltoniani di un grafo di n nodi è finito. Se i nodi vanno da 1 a n i cicli hamiltoniani sono n! oppure (n-1)! Se si fissa il primo nodo.

**Problema TSP**

Consiste nel trovare il ciclo hamiltoniano di costo minimo. Un esempio potrebbe essere un commesso viaggiatore che deve visitare n città una ed una sola volta per mostrare il proprio prodotto.

**TSP asimmetrico**

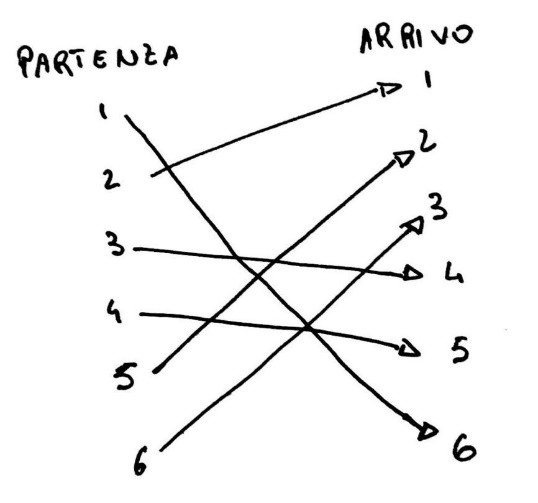
Per ogni (i,j) ε A si ha che ci,j ≠ cj,i quindi il grafo ha bisogno di orientazione. Rappresentiamo un ciclo hamiltoniano C con le variabili binarie xi,j (vale 1 se i,j ε C, 0 altrimenti). Le variabili sono n2 ma solo n devono valere 1.

**![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SqCRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjEwOjI2IDE2OjAyOjU2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2OAAAkpIAAgAAAAM2OAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDoxMDoyNiAxNjowMjozMQAyMDIwOjEwOjI2IDE2OjAyOjMxAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAGNUAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAfwEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9/ooAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigAqrqdst5pV5asMrNA8ZGPVSKALVMkljhiaSV1SNBlmY4AHqTQBQi1yznnjjgFzKsmNk0drI0RB6HeF24981pZoAKKACigAooAKKACigAooAKKACigAooAKKACigAooAKKACigArHMf9raw/mc2ViwAjPSSfhtx9QgIwP7xJ6qDQBX8RX3iC0eNdD06K6Yj5hLwCdrN97I2/c29+ZF9DVS/wBX1zSYYLyfQEvZ5WitStmfmUs7guSekf8AqiB23HPSgDotOupL3TLW6mtntpJoVkeCT70ZIBKn3HSs+XWZludVgjs2kms03QQcq1z8gYlT0wSwX6q1AGlZzSXFjbzzQGCWSNXeFjkxkjJU/TpU9ABRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFFACMwVSxIAAySazPDsbpoVq8sflzTqbiVfR5CXYfgWIoA1KKACsYeKdIbxFLoKXEj6nEFaSFLeRtgIBBLBdoGCOc96ANmigAoyM4oAKKACjIoAKKACigDG0nxBFq2oT20Ij/AHNtBNJh8sjSBiFI+i5/H6Vc/tS0Nw0CzoXVtrAHkEnA469c89OD6UAUtH8S2Or+VGs0S3EyvNFCGJZogwAcggEZBU49+CRyZ7zVTb6zY6dHEkjXCu7ned0arjnAB4yepIHbJJAIBbivrScKYbqCQMocbJAcqeAeOxwax/8AhKEWSRRbfaFjFuHa1lVxvlKgYLbQU+dSGzkjdxxyAWB4o0WcSC01fTZ3i2tKq3anYhYAscZx178ZwMjrTh4n0NlkMWq2k7RoJGjglEr7TjGEXLHORgAc5GOtAGojrIiujBlYAgjoRVHUNYs9NubG3uJUSS8m8mIM4HOCc8npkBeO7KO9AC2es2F/e3FnbTb7i2AMqFGBXLOo6jnmN+npnoRWfeeNfD9hdG3u9QEUoLLtZGySoYnAx2Ck56YI9RkA0NM1vTtYFydPu0uBbS+TKU6K2AfxGCORxUNt4l0a81MadbajBNdFdwSNtwxgnqOM4BOM5wM0AJ4ouHtfCWs3Mf34rGeRfqEJrThQRQRxjoqgD8KAH0UAISB1PXpWBpcF9NqzXup6bsnCMiStMrLEpI+VFHY4GWOC2BkAYUAHQVlXGn3f9rnULe+lCCBk+yMx8t37N7HgDoR14yc0AR2eoLqz6ppvnKDB+6E9tOGYqwKlsgAI4dXG3ttB71eayzqVrdiQ/uIZIdp/i3FDn8Nn60AW6KACuZXTdS03WNZvUvPL0ySEywW8UJlKzMBvfYoyTlc4BO4u3APUAeJNZ1nwpZzWVwbPUdyGVpYmjD7Gw2Ay5VWIyCVyVI4GeFg/4SO3vxDOsVxbz3TSeejgfZ4hn5Cp5OQFIIzyxzgKMgG3dpdPEBaTRRSZ5aWIyDHpgMv86q6QuqpbSLq72zzBzseDIBX3B6c59eMZOc0AcvqfjLSoUMenLFDqqB41aeHCW6eYFYyNkBFPynBOeVyueK17Z/DuraG2uSWFq1tcoXlkltRukAIHIwS3KDHXOBjtQAsWseF7HUr5I3tLa6g2/apBDsA3I0oLPjBG1Wbr+tQX0nhi806HxHdLutT8iuUdd5d1QZTALEkBeR0Zh0Y5AMVP+EFtvsZ0+xtLyCG8Mv2qKWMpZuoMhYuzggAIxwM8KeOMVqpqngu3W4jhubPy5UhWWKEFlfI/d/KoILbcdOQu3sBQBTt9S8NW12sF1o9raQX7PHDczmNjdq6+aznknYQoJLHqVzyeNbVbbwtoGnwve6dYQ2pbyFH2ddoB+YjGMY+TOO+0YycCgCxqXizRtItbS4ubk+TdBmhaKNpNwUZJ+UHiqNza+HfFuohXie5ltpSrFlmQK0TcFTwAQz8MOvzgZwcAFebW/C/hK5ube3sZI7i3jVGFtasd+TuWMN0ZvmyFznk471H4X8QeFdV1i5ttH0+GOaU+aXitwvmKACHbjg5YjB5HfBIFAG/p+p2rXd9ZCzey+ySIp8wIqy7/ALrIAxOCeMkDJBHUHGhFaW0H+pt4o/m3/IgHzYxn644oAbfWcWoafc2Vwu6G4iaKRfVWGD+hqvod299odncSgrM0QEqnqsg4dT7hgR+FAGhRQBXuoHn8ko6L5cgchkDZHPHsfesHTdL8SWcNtDPq0c4IVriR/mbf5rO5XK/dcEIF42ADBOKANi4sp7qzkie6aOV1lQSwjayhs7cHqCBjkdxmqNpp+o2+r2LSSvLa29h5MkrXLEyyZX5jHjGflPzZz8xFAG2FUEkADPX3paACigAooAKKACigBAqjoAKZNBFcQPBNEksTqVdHUMrA9QQeooArW2j6ZZIqWunWkCLjasUKqBgkjAA7Ek/UmrM0ENzA8E8SSwyKVeN1DKwPUEHqKAGPZWkior20TKjFkDICFJBBI9yGYfifWmw6dY283nQWdvFLhhvSMA8nJ5HqeT70AT7FxjAxSkA9aAM/WLCe90ua1spY4JJAQS8e5SGBDZAI9SevXHXpWgB7UAGB6UYA7UAQQ2Fnb3Nxcw2sEdxclTPKkYDS7RgbiOTgcDPSrFABWPpH+i6nqun4wqyi6jGc/JLkn8fMWX9KANiigCrqM9zbafNNaWzXM6jKQqVBb6bio/MiqeiajcarbR3m63e1cMFaMMG3BtpGD6EHn8uKANaigAooAKKACo4p4p0LxSLIoZkJU5AZSQR9QQQfpQBJRQAUyWWOGMvK4RQQMk4HJwP1oAZbXUF3GzwSB1Vipx2I/wA/1oubuCzglmuJUijijaV2c4CqvJJ9hQAlleQ6hYwXlsxaC4jWWNipGVYZBweRwe9R/wBpWv8Aao03e32owmYLsbBUEA/NjGQWHGc8j1oAsuxVchS3IGB9etZWmeJNP1VxHCZUlI3FJIiNo3FRk9ATtOATnjpwaALs+pWdrMsVxcwws5VV8yQLuLZ2gZ7nBwO+D6Uo1GyNxHbi7gM8gJSMSDc2M5wO/Q/kfSgDP1XxHY6VqNrZzzRK0o3PufBRCyopwAScu6L2HJOeKl0fxDpevi4OmXaXH2aUxSlQ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CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA+Lv8AgkrdNc/sbaKjSb/s+q38Srt+5+93bf8Ax6vtGvh7/gkHeSXH7IsMbNuS31y8jUf3V+Rv/Zq+4aACkalr5o/b8+PEnwB/Zx17U9Mufs3iXVP+JXpW37/nS/edf9xNzfhQB89fGjVr/wDb0/aki+DmiXMkPwo8Ezre+K7y3f5b+4R+Ik2/e/uf99t/CtfoVpOl2eg6bbafYwR2tjaxrBbwRLtSNF+VVFfOv7A/7Pi/AX4A6TBfwg+LNdRdX1q4f77TSLuWJm/2FZV/76r6coAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACs3VtLttc0280y+gW5sryF4J4ZPuyRsu1l/KtKigD854/wDgnh8Yvg74pvB8FPjLN4b8JXlz5p0y9L/6Mu7d91fkf/xyvq/9mv4By/ArQdcbVvENx4t8U+I9RbVNY1u5TY88u1URVX+FVVRXtNFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfCP8AwRyZv+GUbsH7n/CQ3W3/AL4ir7ur89v+CLt4837OfiqBvuQ+JpCv/AreGv0JoAZ9xK/OT4wRzftmf8FBNB+HMU27wL8MAuqars+ZJbrcjujf8C2Rf99190/Fj4gWXwn+HHiLxbqMkaWmj2Mt0wkbbuKrlVr5M/4JY/D3UIvhb4p+KviBWbxD8Q9Yl1AzMvzm2R3VP/IrTN/3zQB9yqip0p9FFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfnX/wAEVZ/+LA+NYT/D4nZvztYf/ia/RSvzb/4ImzB/hD8RIizfJrsTbf7v+jr/APE1+klAHwB/wVe8capqHhXwB8H9FO278d6zFbyy/wDTNZUVE/7+un/fNfb3gXwjYeAvBuh+G9MjEVhpNnDZQIv9yJFQf+g18D/8FDrz+yv2xP2WL6SOWS2XWFVlRfkLfbbdf++vnr9GFoAWiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPk79qj9qjxh8OfHGkfDb4ReDE8d/Em8s21WazlbFvZ2e/Zvf50+Zm/wBrt/tV7d8F/EviXxr8MdD1nxn4bbwh4nuo2e+0cy+b5Dh2UbW/usuG/wBnfXzH8BtSj8W/8FLPj/qanzk0XRLDSImkX5o/9Uzov/A0avt+gAooooAKKKKAOR+InxI8NfCrwreeJPFWs2uiaJaf627uHwu7naq/3mOPu14X8O/+CjHwJ+Jvi2w8OaP4rmj1TUbhbazjvrKWBJpWbaiBivBY/wB6vcPiV8MfDHxi8Jz+G/F2kW+u6JK6Sva3G7ZvU7kavgb9s/4I/Dn4QfFj9mfT/A3g3SfDeral40t3aWxt1R5o4pbf5Hb+L5nWgD9KEbetPoooAKKKKACiivE779pfQtI/aQtPg7qmnanpur6jY/bdM1O4iH2S+bazPFE395VVv++f++gD2yiuH+JnxEs/APw+8XeJDLDct4f0y6v5bdZV3fuonfa3937teSfsm2Pi3R/2QfD+qtcvr/jTWdOn8QxjVp2VJbq63XEUTN/DF86LQB9J0VxPwx1XxNrngXRLzxjo9v4f8TywbtQ06znE8UMu/wDgf+Lja3/Av4q7agAopm75qduoAWiiigAorz74yfGTwx8CfAepeL/F9+LHR7PCttXc8rt9yKNf4nan/Bn4naZ8aPhvofjPR7S8stO1iHz4YL+Ly5lXc6/Mv/AfvZ+agDvqazbadXh37XXx+039nL4E+IvFd3Kjam0TWek2hb5ri9kXbEv/AAH77f7KNQB3/gH4oeE/ila6hceE9estdt9Ou3srmSzl3eVOv3kauyr8d/8AgnD4mt/gX+07ofhZvG1h4g074geG0uL2Kxn3RWup5aSKB/70qKrL/wBta/YigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/MP8A4IizNJ4R+KkJdii39g6r9Ypef/HVr9PK/Lb/AIIi3Rk0X4q23y7FubCX7v8Asy//ABNfqTQB+ff/AAVw0W+0XwZ8M/iZpsW+68G+JIpWb7yIrbXR2X/rrEi/8Dr7o8J+Jbbxd4V0fXrGRZbHVLOK9gdf4klRXX/0KvPP2qPg/F8dP2f/ABr4PZVe6vbF3s2dfu3UXzxN/wB9qteEf8Ervi1P44/Z4bwfqqsniDwHePpFzCy7WSLczxbv/H0/7ZUAfa1FFFABRRRQAUUUUAFFFFABRRRQAUUV47+1Rpeoat8APGyaX4ouPBd7b6e17FrdvN5TW/lfvfvLzt+Xb/wKgD17zF3bNy7v7tSV+Ov/AATp/aVXWv2io9Q+MHi7WNQ8R6lpS6N4YvdUuHe0Hz/vUdv777FVW/vFv7y1+uetaf8A2vpN7YGea0NzA0PnQPtli3Ky70b+9QBr0Vx/w28Gy/D/AMGaV4dl1vVfEb2EbJ/amszrLdz/ADlv3j/xH5tv/Aa7CgAoqq95DFMkDTRrK/3UZvmarVABXzJoP7d3w5174peLvC/9pQ6donhOJk1HxLql5Fb2j3G/b5ESs26X+L5v9k/8C+itReeHT7t7WPzrhYnaKP7u59vyrX46/sfaL+zz4Bh1HxP8XTea38WodRnhXwNcaZPcSxXCyuuyKBU2yu+5fv8A3WRqAP1z8DeONF+JHhiw8S+G9QXVdFv0Z7a7jVlSVdxXcu7/AHWrqK5rwZeHUPCul3T6PN4eeezilOmTBVezyo/dNt+XctdLQAUUVFJIqKzM21V+9QB8Vfsa3cWofthftYTwJviGtWCecv8AfVZldf8Avpa+2q+Gv+CXdj/bWifGfx62138TeOLxlbdubyovnX/x6d6+z9e1m28N6Lf6reSbLSzgluJX/uois7f+g0AWbrULazCfaJo7fe21PMbbuartfknofw6tP21/gR8Vf2gfiH4u8Q2GraW+o/2PYxyCDT9Oit4vNiSLP+tX5kXd8vzb/wCL5q+0f+CfvxM134jfsm+A9X8WXLza1KLiyW4un/e3ixSuqP8AN95tqf8AjtAH03TEfdRu3V8afsG/EjxF4u+I37Reh67qc2o22ieNZfsX2iRneBJHlXyl/ur+4T5f96gD7Or4O/4KfaLfeH5Pgv8AFmC2uLuy8CeKYrrUIbdd+2Bnil3lf9632/8AA6+8axPFFtbXnhzVYr62jvrJ7aXzbaVNySrs+61AHK/B342+DPj54THiPwNrcOt6Zv8AKlKKySwS7d2x1b7rfNXotfB//BIXwvHpv7OeueIUhWB9e8SXU6wxfcWKJUiVU/2d2+vvCgAooooAK+QP+CkXh65s/hH4f+J+lLJ/bfw51+z1yJ4V+Z4PNVJU/wB35kb/AIBX1/WRrvh/T/FGh3+karaRX+mX8D21zazruSWJl2sjUAfmB+3p8GvhReaX4S1/wBLqa/EP4s6jAtjHZahK1vexTsvmyyxbvu/vVT/gf+y1fTH7cHjrxJ+zP+zb4T1PwLqE+mNousaXYSzpGjK1miOmyVWX7jbUX/vmsr4N/wDBOnSPhX8bdL8aXPjHU/EXh7w6ko8MeHtQVmTSWldmYK+751Xc235F52t/DX1n4u8IaH480K60LxFpVprWj3W3z7G9hWWKQbt3zK3+7QBp20yXVnFMh+SRVZWWuF+Hfxs8KfFLxF4z0Tw/eyXOqeEdR/srVbeWJkaKb5sf76/K3/fDV6BHCsMaxouxFXaqr/DXk/w/+AmmfDb40fETx7pl9OqeNltZL3THRTEk8Cuvmo3+0r/d/wB6gD5b/wCCr3gnxZeeAfDHi/SvFOs6V4V0u9Wy1+x05n2R28r/APH2yq3z7WVF2t/fX7teifshfsgn4K6ra+NLP4x+IvHeh6jparaWU0uLGRJdrrNt3tu/2f8Aer6P1JfC3xW8PeIvDc91Ya9p8iy6VqtrBcJL5bMu14pdp+V8N9018tfsJapq3wr8efEz9nXWNRbUofA1xHe6BdSqN76dP8+xv9xnT/v63+zQB9q0UUUAfmx/wUCsdQ+Jn7VXw88D6h42tfh7oVjokuvaPq2sRK2nTaqkrfJLu+X/AFSL1z9/7vzfNt/so6/e2X7SmneHf+FyeIvjReRaLcXOpz6XOq+HdL+55SOnzb3+8q/Mu35f9rb9mfFT4J+CPjhoS6R438OWPiGxjbfEt2nzRMV27kb7ytzVn4afCHwb8HdD/sjwZ4d0/wAP6eW3tFYwKhkf+8zfxNQB29fnX4T+F83/AAUY+LviLxz8QhdRfCLwrf3OheG/DStLbveTJ/rbqV/8/wB3+Bt36KVXt4Y7ddsSrGv3tqrtoA/NX9tr9lfw/wDszeFvAPxd+D3hS30vUfA2sRXeoxQq8nnQlkKvKx+8qum3d/01r9C/AviyHxx4J0LxHBa3NhFqllFerb3cTJLEJUV9rr/e+at24t4L2B4p41mif5WR13K1TKqxrtX5VWgCSiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD8l/wDgiLfeX4k+Kto0iojWunOq7fmb57iv1or8ff8Agin/AMlS+IS7tn/EstX2/wDbVv8A4qv2CoAK/NC700fsT/8ABSC01EO1l8PPinG0TySnbFFcyv8Ac/2ds+1v92Zq/S+vnj9tb9mu2/ad+DGo+H4vLi8Safu1DRbxh80d0qn5N/8ACr/dP/2NAH0JT6+Qf+Cd37S2o/Gz4aX3hjxYktt4/wDBbrpWrR3H+tnVdyJK3+18m1/9pf8Aar6+oAKKKKACiiigAooooAKKKKACvnP9u/wP43+JX7NfiTwt4Bszf61qclrbSQLIqs9uZl80Zb/Z/wDZq+jKKAPCvDf7JPw10zwj8N9HvvC9rqEvgRYX0q4nBEkc67WeXcv3tz/Pt+7uqf8AbAsfG1/+zn44h+HU11beLvsm60axbFw670aVIm/hYrur26igD5u8A/GbUPg/+xZoHj74rW+owarpGhxPqsV0n+lSy7/KTd/tP8n/AH3XqPwX+Ilx8Wvhf4f8YXOg3HhttZg+1Rabdyq0sUTM3lMzL/fTa3/A6i+OXwj0v48fCzX/AANrU01rYaxCIpJoPlljZXR1dc/7SLWp4L8HSeB/h3oXhW21GWZ9I0uLTYtQmRd7eVEqLKy/8AoA/ML9rT9mHWfgB8VvDXxt8Z+KNZ+I/hi58RbtfeF2srixiZ/3AVkf5V2/J8m37i/d3V+rWjatZ69pNlqdhcR3djfQrcQXEX3JY3Xcjf8AfNfmf8SfiZ+098PdC8W/DL4rfDCT4yeG9ZtJ7W017R7J3Z927ynfylZV2ttba6K3yfe/ir7G/Yd8F+Kvh3+yz8PvD/jSOS216zs3WW1uH3PbxNK7RRP/ALSIyLt/g+7/AA0Ae/Vz8Pgbw/Dr0utR6JYLrEg+e/W2Tzm/4H1roKKACiiigAr4r/4KQfALxt8T/A9r4y8F+MbvQbrwdZ3V7Ppkc7wrcx7NzujL92XajV9qV88ft8eJ7vwj+x78UtSsWZLhtK+ybk+V1WeVIHb/AL4lagDnf+CZ3h+w0P8AYv8AAEllAsTaitze3Tf89JmuJVZv++VVf+A19JeI9EtPEmi6hpF6nm2WoW0trcJ/ejdGRh/49Xmf7I3hiHwd+zH8LdJtjHJFF4es3Zom3KzyxLK7f99u1ewI+6gD839J/wCCfHxkh8Ot8G7j4j6YvwG/tRr9/s8TJq0sW7d9n+5t+9j+Lb/6BXa/tn/C+68Cr+zLZ/DzTtUs9P8ADHi210+K30lZX+z2zbFZn2/N91X+dv77/wB6vu6o2RX+8tACp9yvHPhH+zjofwc+KHxK8YaPqF6x8cXkV/eabLt8m3nXfueM/e+dpXr2aigArm/HlvNfeCfEVvaStDdy6dcJFIn3kcxNtb866Jm218feLv8AgqB8EvBPxI1nwdrF3rcN1pd5JZXV6NO32yyoWV1+/v27l/u0AVP+CS8yyfscaPGfneHV79GP+15u7/2avs6vhj/glHNeXvwj+IF9BaG28M3/AIyvLvRWdNjtCypn/gPyp/49X3PQAUUUUAFFFFABRRRQAUx13rT6KAPi34ufsH63cfErWPiB8G/idqnwt1/WJftGqWMW6ayupT96XZu+Vvm3fxLn+5Xpn7NH7KNn8B7zX/E2q+INQ8a/ETxGUOr+JNSPzyqn/LJF/hT/AOJT+6tfQ1FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfjr/wRSvlj+M3j2y2b3m0KKXd/dVLhP8A4pa/Yqvxi/4Iq+Z/w0T4w2fd/wCEZfd/4FW9fs7QAUUUUAfn7+2d8EfGXwV+KFl+0l8HLJX1SwVv+Ep0WLft1GL+OV1H3l2/K3+6j/w19J/s1/tSeCf2nfCFtq/hm/jj1RYlfUNDlkX7XZMcblZf4l3Z+eva5I1ddrKrL/tV8Z/HX/gnD4Z8ca//AMJh8N9Um+FHjmLdMt1oo22k8u/duljX7rf7n/j1AH2hRX5t618ZP22P2f8Aw9caTrngax+JS+XJBZ+I9Mge4mRvuo7pF97+986V9OfsU+JPi/4s+Dqan8Z7M2XiWW/k+yxyWqW8r2oVNjSxL91t2/8A8doA+iKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK474mfD3SPix4D13wdrsTT6RrVq1jcpG219jfxK3977rf8BrsaKAPg/wAL/sC/FXw7ptv4I/4aH1uH4Wwfuk0uxtPKvfI/55LPu+Qf7v8A3zX2zoOi2/h/R7DSrTd9msraK3i85tz7EXau5v4vu1r0UAFFFFABRRRQAVxXiD4Q+B/Ft4bzXfB2haxdj/ltfadFK/8A30y12tFAGXoui6f4b0yDT9KsbbTdPgXbFbWkSxRKv+yq1qUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH42f8EVbNX+O/je43qpi8ObNu77264i/+Jr9k6/H/AP4Im28X/C1/iLcMuZY9FgRWP8KtPz/6CtfsBQAUUUUAFFFFACFd1LRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAfkr/wRDtTJ4t+Kt4f4LCwi+7/ALcv/wATX61V+WP/AAQ/jcWvxbkLfJ5mmrt/2v8ASK/U6gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA8h+Bf7MXw6/Zpt9at/h9okmix6p5Ul6GvJrjzWiDbD+9Zsffbp6167iiigAxRiiigAxRiiigAxTNwzjH60UUAPxRiiigAxRiiigCPcOuP1qTFFFABimbgvb9aKKAFVt3/wCunYoooAMUYoooAbv9v1pNwzjH60UUAPxRiiigBm4Zxj9afiiigAxRiiigAxSZoooAXFGKKKADFIpJ60UUANJx0z+dPxRRQAYoxRRQAYoxRRQAYoxRRQAYoxRRQAYphOOmfzoooANw9P1p+KKKADFGKKKADFGKKKADFGKKKADFJmiimgEVt3/66diiikAYoxRRQAYpm4Zxj9aKKAH4oxRRQAYoxRRQAYoxRRQAzd7frT8UUUAGKMUUUAGKMUUUAGKarbv/ANdFFAC5pcUUUAGKMUUUAGKMUUUAMZtvb9aceOmKKKAFxRiiigBm72/Wn4oooAMUYoooAjz/AJzTqKKZTHYoxRRSJDFGKKKADFGKKKADFGKKKAEUk9aaTjpn86KKAH4oxRRQAYoxRRQAzcM4x+tPxRRQAYoxRRQAYoxRRQAzcPSjcF7frRRVAIrBu3609uOlFFAC4oxRRUgGKMUUUAGKMUUUAGKKKKAP/9k=)Modello matematico**

Tutti i cicli hamiltoniani possono essere visti come un grafo bipartito che ha 2n nodi, ad esempio prendiamo un grafo con 6 nodi che ha il seguente ciclo hamiltoniano:

C = 1-6-3-4-5-2-1 Possiamo rappresentarlo come segue:

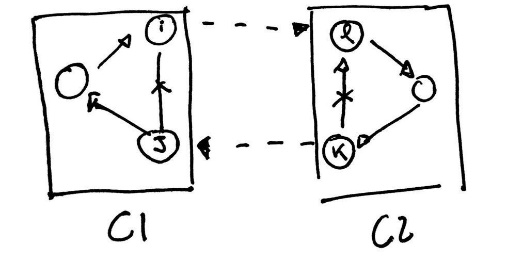


**VI)** Nella risoluzione del TSP asimmetrico attraverso il Branch&Bound è importante avere a disposizione delle buone valutazioni inferiori. Eliminando i vincoli di connessione si ottiene un problema rilassato (non continuo) che equivale al seguente problema di assegnamento di costo minimo. Tutti i cicli hamiltoniani sono assegnamenti, mentre non è sempre vero il contrario.

Immagine che contiene testo

Descrizione generata automaticamente

**VS)** Algoritmo delle toppe (greedy)

Genera una soluzione ammissibile del TSP asimmetrico non necessariamente ottima. Il metodo genera un ciclo hamiltoniano attraverso fusioni dei cicli disgiunti che costituiscono la soluzione ottima del rilassamento (assegnamento di costo minimo). Supponiamo di avere 2 cicli disgiunti C1 e C2; se non ci fossero saremmo già all’ottimo perché l’assegnamento fornisce anche una soluzione ammissibile VI = VS.

Prendo un arco i,j ε C1 e un arco k,l ε C2, cancello questi due archi e creo altri due archi i,l e k,j. Così facendo creo un ciclo hamiltoniano e quindi una soluzione ammissibile per il TSP. Se ci sono k cicli disgiunti si “rattoppano” a 2 a 2 iterando il procedimento k-1 volte.

**Osservazione**

Il Branch & Bound per il TSP asimmetrico è abbastanza lungo da fare perché dovrei fare l’algoritmo del simplesso per flussi ogni volta per trovare la VI. Per trovare la VS invece devo usare l’algoritmo delle toppe a partire dalla VS più piccola possibile.

**TSP simmetrico**

Per ogni i,j ε A ci,j = cj,i quindi il grafo G non ha bisogno di orientazione.

**Immagine che contiene testo

Descrizione generata automaticamenteModello matematico**

Vincoli di grafo: due archi incidono sul nodo.

Vincoli di connessione: comunque si sceglie S, deve esiste almeno un arco che esce da S e arriva fuori da S in modo da non creare cicli disgiunti.

**VS)** Algoritmo del nodo più vicino (greedy).

Genera una soluzione ammissibile non necessariamente ottima, cioè trova un ciclo hamiltoniano. Parte da un nodo S1 e lo collega al nodo S2 più vicino seguendo le distanze ci,j. Poi si collega il nodo S2 al nodo S3 più vicino e così via fino a collegare tutti i nodi.

**VI)** Algoritmo di Kruskal (greedy), r-abero.

Un rilassamento del TSP simmetrico che fornisce buone valutazioni inferiori si ottiene eliminando tutti i vincoli sul grado dei nodi tranne uno che supporremo essere il nodo r:

Immagine che contiene testo

Descrizione generata automaticamente

Tale rilassamento corrisponde al problema del r-albero di costo minimo ovvero un insieme di archi in cui:

* N-2 archi formano un albero di copertura del sottografo formai dai nodi N \{r}.
* 2 archi sono incidenti sul nodo r.

Per risolvere il problema del r-albero di costo minimo bisogna:

* Scegliere 2 archi di costo minimo incidenti sul nodo r.
* Scegliere un albero di copertura di costo minimo sul sottografo formato dai nodi N\{r}.

Un r-albero può violare al massimo n-2 vincoli. Per trovare un albero di copertura T di costo minimo su un qualunque grafo G=(N,A) si può usare l’algoritmo di Kruskal:

* Si esaminano gli archi in ordine crescente di costo.
* Ogni arco viene inserito nell’albero T a condizione che non formi un ciclo con gli altri archi di T già inseriti.

Tutti i cicli hamiltoniani sono r-alberi ma non il contrario. Se trovo un ciclo hamiltoniano che è anche un r-albero allora sono all’ottimo perché VI = VS e non ho bisogno di fare il Branch&Bound perché sono all’ottimo.

Immagine che contiene testo

Descrizione generata automaticamente**Esempio**

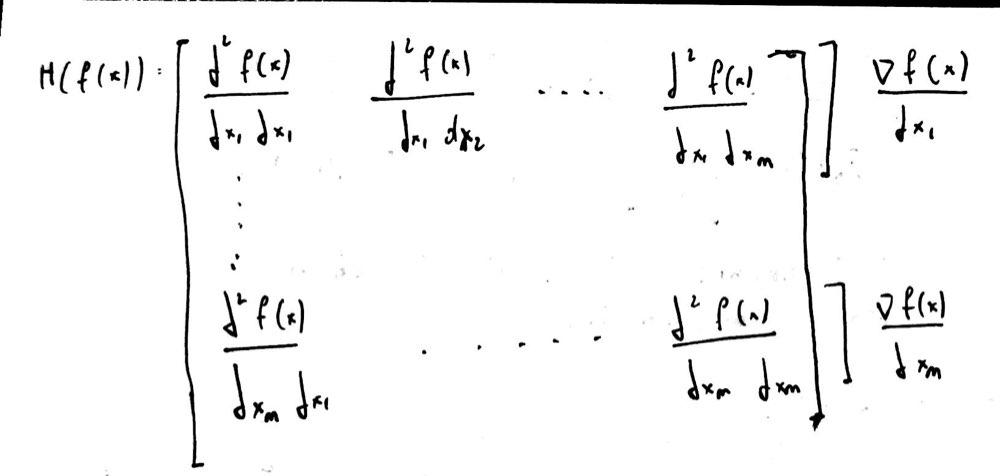
**PNL**

**Matrice Hessiana**

f(x): Rn->R, f(x) ε C2 (derivate seconde parziali continue)

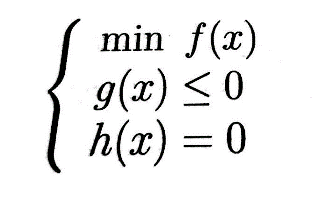
Immagine che contiene testo

Descrizione generata automaticamenteSe ho n derivate parziali prime, ogni derivata parziale prima ha n derivate parziali seconde. La matrice H(f(x)) è formata dalle derivate parziali seconde di f(x):



**Teoria della PNL**

Studieremo problemi di PNL della forma:



f : Rn->R g : Rn->Rm (m vincoli di disuguaglianza) h : Rn->Rp (p vincoli di uguaglianza).

La regione ammissibile del problema di PNL è dato da:

**D = {x ε Rn : g(x) ≤ 0, h(x) = 0}**

Se g e h sono lineari allora D è un poliedro. Ci interessa studiare le proprietà della funzione obiettivo f(x) e della regione ammissibile D (che dovremmo dedurre da h(x) e g(x) ). **Le caratteristiche della funzione obiettivo** che ci interessano sono:

* Regolarità (continua, differenziabile, C1, C2.. )
* Convessa
* Concava
* Quadratica.

**Le proprietà della regione ammissibile** che ci interessano invece sono:

* Chiusa.
* Limitata.
* Convessa.
* Regolare.
* **Funzione convessa**

Presi due punti qualsiasi y,z ε Rn una funzione f(x) si dice convessa se preso un qualsiasi punto del segmento λy + (1-λ)z con λ ε [0,1], il valore della funzione calcolata in tale punto è ≤ al valore della combinazione convessa di f(y) e f(z):

**f(λy + (1-λ)z) λy + (1-λ) ≤ λf(y) + (1-λ)f(z)**

Immagine che contiene testo

Descrizione generata automaticamente

per vedere se una funzione è convessa distinguo due casi:

* 1 variabile: se f’(x) crescente -> f’(x) f’(y) ∀ x ≤ y.
* 2 variabili: se H(f(x)) ≥ 0 ∀x cioè la matrice Hessiana è semidefinita positiva oppure si può scrivere come <Ax,x> ≥ 0 ∀x.

Dato che H(f(x)) è simmetrica la positività si verifica mediante gli autovalori.

**Esempio**

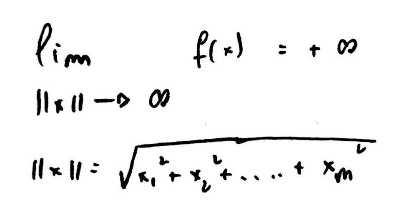
**Immagine che contiene testo

Descrizione generata automaticamente**

* **Funzione concava**

Una funzione è concava se la funzione -f(x) è convessa (Hessiana semidefinita negativa).

* **Funzione coerciva**

Una funzione si dice coerciva se:

Una funzione si dice coerciva se all’aumentare delle distanze la funzione va a +∞. Per studiare la coercività di una funzione in genere si studiano le direzioni degli assi e delle bisettrici.

**Teorema**

Data una funzione f(x), se l’Hessiana H(f(x)) è definita positiva (tutti gli autovalori > 0) allora f(x) è coerciva.

Immagine che contiene testo

Descrizione generata automaticamente**Esempio**

* **Quadratica**

In [algebra](https://it.wikipedia.org/wiki/Algebra), una funzione quadratica è una [funzione](https://it.wikipedia.org/wiki/Funzione_(matematica)) in una o più variabili definita in modo esplicito attraverso un [polinomio](https://it.wikipedia.org/wiki/Polinomio) di secondo grado. Ad esempio: ax2 + by2 + cz2 +dxy + ….

Con almeno uno tra a,b,c ≠ 0.

**Proprietà della regione ammissibile**

La regione ammissibile è:

* **Chiusa** se g(x) ≤ 0 e h(x) = 0 . Sono sempre regioni chiuse perché c’è l’uguale.
* **Convessa**: deve esistere un segmento che unisce due punti dell’insieme che sia contenuto interamente nell’insieme.
* **Limitata**: bisogna saperla disegnare.
* **Regolare**: pagina 51.

**Teorema**

Supponiamo di avere D dominio canonico quindi della forma D = {x ε Rn : g(x) ≤ 0, h(x) = 0}, se le funzioni gi sono tutte convesse e le funzioni hj sono tutte lineari allora il dominio D è convesso.

Le proprietà che abbiamo visto della funzione obiettivo f(x) e della regione ammissibile (D) servono a garantire:

1. Esistenza delle soluzioni (ottimi globali).
2. Condizioni di ottimalità (test).
3. Algoritmi risolutivi.

**Esistenza di ottimi globali**

Vediamo alcune condizioni che servono per garantire l’esistenza di minimi globali di f su D.

**Teorema**

Dal teorema di Weierstrass abbiamo che se la funzione f è continua e l’insieme D è compatto (chiuso e limitato) allora esiste il minimo globale. Se la regione D non è limitata ci si può ricondurre a Weierstrass aggiungendo ipotesi.

**Teorema**

Se l’insieme D è chiuso e la funzione f è continua e coerciva allora esiste il minimo globale di f su D.

**Teorema**

Se f è quadratica allora è coerciva se e solo se H(f(x)) > 0 (definita positiva).

**Teorema**  (**condizione necessaria**)

Dal teorema di Fermat abbiamo che se x\* è un punto di minimo per f(x) interno a D e f(x) ε C1 allora ∇f(x\*) =0.

**Teorema** (**condizione sufficiente**)

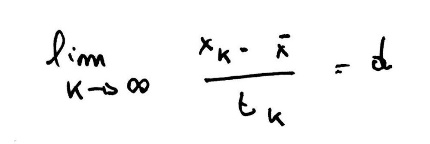
Se x\* ε D, f(x) ε C2, ∇f(x\*) = 0, H(f(x)) > 0 allora x\* è un punto di minimo.

**Teorema**

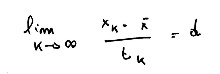
Se x\* è un punto di minimo per f(x) interno a D, f(x) ε C2, ∇f(x\*) = 0 allora H(f(x)) ≥ 0 (condizione necessaria).

**Regolarità dei vincoli**

Dato un punto x\* ε D, un vettore d è detto tangente a D in x\* se esiste una successione di punti {xK} ⊂ D con xK -> x\* ed una successione di scalari positivi {tK} con tK->0 tali che:



L’insieme di tali vettori è chiamato **cono tangente** a D in x\* e si indica con TD(x\*):

**TD(x\*) = {d ε Rn: ∃ {xk} ⊂ D, ∃ {tk} -> 0 : d = }**

**Cono linearizzato del primo ordine**

Dato un punto x\* ε D, indichiamo con A(x\*) l’insieme dei vincoli di disuguaglianza che sono attivi in x\* cioè:

**A(x\*) = { i : gi(x) = 0 }**

L’insieme

**LD(x\*) = {d ε Rn: dT ∇gi(x\*) ≤ 0 ∀ i ε A(x\*), dT∇hj(x\*) = 0 ∀ j = 1,..,p }**

viene chiamato **cono delle direzioni ammissibili** **del primo ordine** nel punto x\* (o **cono linearizzato** del primo ordine).

**Dominio regolare**

Il dominio D = {x ε Rn: g(x) ≤ 0, h(x) = 0} si dice regolare ∀ x ε D se TD(x\*) = LD(x\*).

**Teorema**

In generale, dato un punto x\* ε D si ha: TD(x\*) ⊆ LD(x\*).

**Condizioni che garantiscono la regolarità dei vincoli**

1. Se D è un poliedro (quindi g e h lineari) allora il dominio D è regolare.
2. Se gi è una funzione convessa ∀ i ε {1,…,m} e la funzione hj è lineare ∀ j ε {1,…,p} e ∃ x\* ε D : g(x\*) < 0, allora il dominio D è regolare.
3. Se x\* ε D ed i vettori:
   1. ∇gi(x\*) per i ε A(x)
   2. ∇hj(x\*) per j ε {1,…,p}

Sono linearmente indipendenti, allora il dominio D è regolare.

**Teorema (condizione necessaria)**

Se f(x) ε C1, D chiuso e x\* ε D è un punto di minimo locale di f(x) allora :

dT∇f(x\*) ≥ 0 ∀ d ε TD(x\*)

cioè il gradiente è contenuto dentro il piano tangente.

**Teorema (LKT) (condizione necessaria del primo ordine).**

Supponiamo che D sia regolare e che x\* sia un minimo locale di f(x) su D, allora esistono due vettori λ ε Rm, μ ε Rp detti moltiplicatori tali che (x\*,λ,μ) soddisfa il sistema LKT (Lagrange-Kuhn-Tucker):

Immagine che contiene testo

Descrizione generata automaticamente

**Osservazioni**

Il sistema LKT è un sistema quadrato di (n+m+p) equazioni non lineari in (n+m+p) incognite. Tutte le soluzioni del sistema hanno la forma (x,λ,μ) quindi se in qualche modo si sa che il minimo locale esiste, esso si trova tra le soluzioni del sistema LKT. In pratica se D è regolare, per il teorema il sistema LKT fornisce tutti i punti stazionari di f su D e i moltiplicatori λ e μ.

* λ sono gli autovalori relativi alla soluzione x\* a cui si riferiscono e quindi possono fornire informazioni sul punto stazionario x\*.
* μ = ?

Quindi se (x,λ,μ) è una soluzione del sistema LKKT, allora x è un punto stazionario.

* **Problema convesso**

Un problema si dice convesso quando f(x) è convessa e D è convessa.

* **Problema concavo**

Un problema si dice concavo quando f(x) è concava e D è convesso.

* **Teorema**

Se f : Rn ->R , f ε C1 è convessa e ∇f(x\*) = 0 allora x\* è un punto di minimo assoluto.

* **Teorema**

Se f : Rn ->R , f ε C1 è concava e ∇f(x\*) = 0 allora x\* è un punto di massimo assoluto.

**Teorema (condizione necessaria del secondo ordine)**

Supponiamo di avere un problema convesso (f(x) convessa e D convesso). Inoltre supponiamo che:

1. x\* ε D è un punto di minimo relativo.
2. x\* ε D è un punto di minimo globale.
3. dT∇f(x\*) ≥ 0 ∀ d ε Td(x\*).
4. ∇f(x\*)(x-x\*) ≥ 0 ∀ x ε D.

Allora tutte le condizioni oltre a necessarie diventano sufficienti.

1⬄ 2⬄ 3⬄ 4

**Teorema LKT convesso**

Supponiamo di avere un problema convesso (f(x) convessa e D convesso). Inoltre supponiamo che D sia regolare. Allora

Immagine che contiene testo

Descrizione generata automaticamentex\* minimo assoluto di f su D ⬄ ∃ λ ε Rm (positivi), μ ε Rp tali che:

**Teorema LKKT concavo**

Supponiamo di avere un problema concavo (f(x) concava e D convesso). Inoltre supponiamo che D sia regolare. Allora

Immagine che contiene testo

Descrizione generata automaticamentex\* massimo assoluto di f su D ⬄ ∃ λ ε Rm, μ ε Rp tali che:

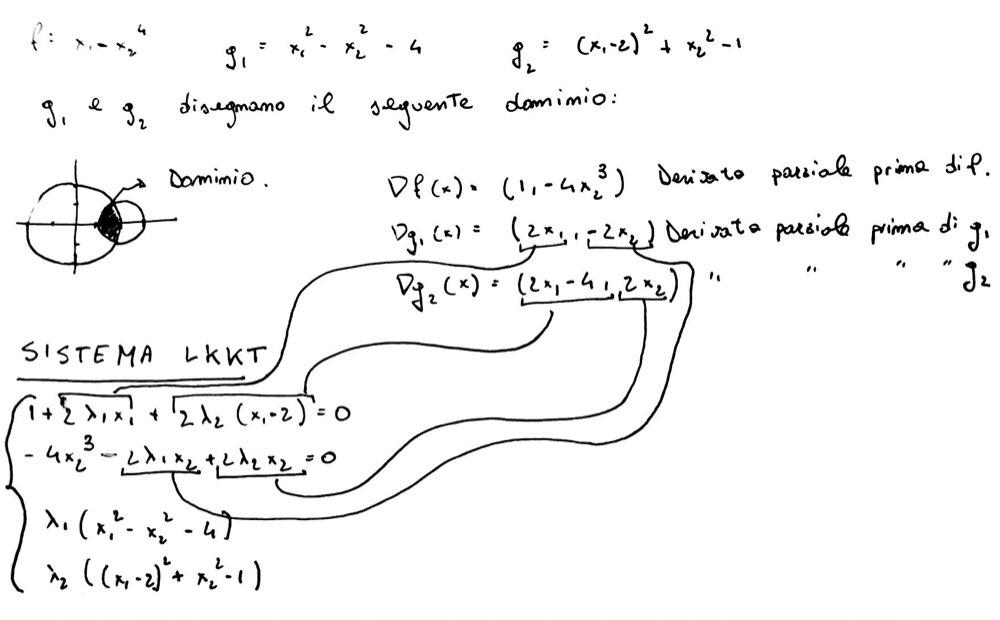
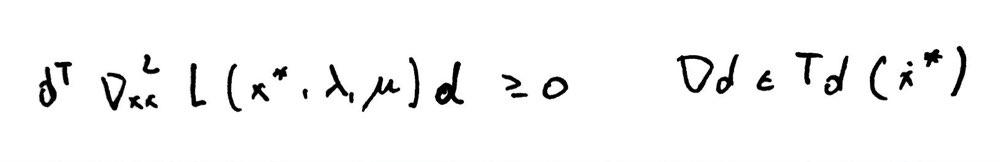
**Esempio**

Immagine che contiene testo

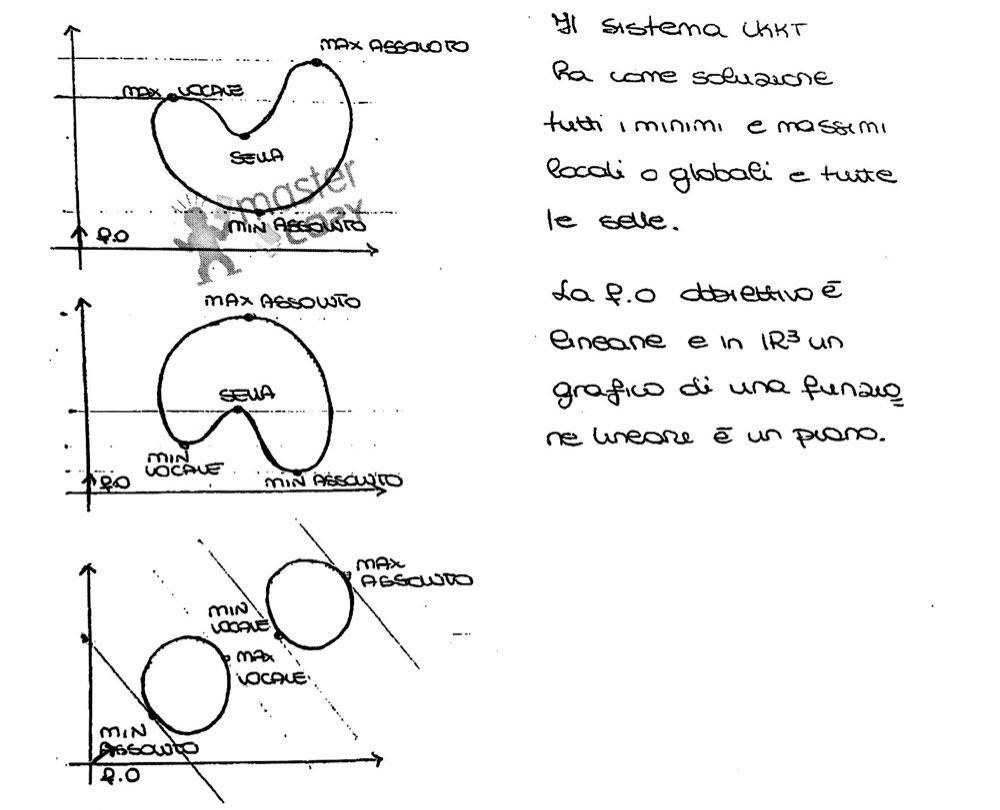
Descrizione generata automaticamente**Funzione lagrangiana del problema**

**Teorema (condizione necessaria)**

Se f,g,h ε C2, D è regolare, x\* minimo locale di f su D, (x\*,λ,μ) soluzione del sistema LKKT allora:

cioè la matrice Hessiana della funzione lagrangiana è semidefinita positiva nella direzione del cono tangente alla regione D in x\*.

**Interpretazione geometrica della PNL**

Il gradiente punta sempre nella direzione in cui la funzione obiettivo cresce.

**Metodi di PNL per funzioni di una variabile**

Uno degli obiettivi della PNL è quello di cercare algoritmi che trovano una soluzione locale o globale o una sua approssimazione. In realtà gli algoritmi si limitano a cercare un punto che soddisfi una condizione necessaria di ottimalità, cioè una soluzione che sia verificata da ogni soluzione locale. Lo scopo successivo è stabilire se il punto trovato è un minimo locale o globale. Poiché gli algoritmi risolutivi di PNL non terminano necessariamente in un numero finito di iterazioni, si introducono i **criteri di stop:**

* Numero di iterazioni pari ad un valore prefissato.
* Una condizione di ottimalità verificata con errore < ε.
* ||xk+1-xk|| < ε
* |f(xk+1)-f(xk)| < ε

ε > 0 (tolleranza d’errore).

**Metodi esatti**

Nei metodi per minimizzare una funzione di n variabili che vedremo dopo sarà necessario trovare il minimo (esatto o approssimato) di una funzione di una sola variabile ad ogni iterazione. Quindi ora cerchiamo i punti stazionari di una funzione f:R->R ovvero f’(x) = 0.

**Metodo di bisezione**

Si basa sul teorema di esistenza degli zeri. Se esiste un intervallo [a,b] tale che f(a)f(b) < 0 allora f ammette almeno un punto stazione x\* ε [a,b]. Per approssimare x\* si divide l’intervallo [a,b] a metà e si stabilisce in quale sotto intervallo è presente almeno una soluzione valutando in segno di f’( (a+b)/2 ). Ad ogni iterazione si dimezza l’ampiezza dell’intervallo contenente la soluzione.

**Algoritmo**

* Si pone a0= a, b0=b. x0= (a+b)/2 k = 0.
* Se f’(xk) ≠ 0 allora:
  + Se f’(xk) \* f’(ak) < 0 Allora: ak+1= ak bk+1=xk
  + Altrimenti ak+1= xk bk+1= bk
  + Pongo xk+1 = (ak+1 + bk+1)/2 k = k + 1 e ripeti il procedimento.
* Altrimenti f’(xk) = 0 quindi **STOP.**

Convergenza molto lenta.

**Immagine che contiene testo

Descrizione generata automaticamenteEsempio**

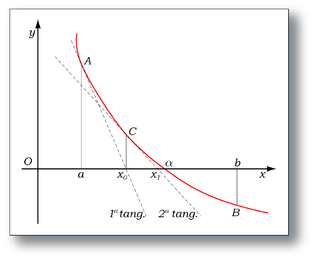
**Metodo di Newton (Newton-Raphson)**

Ad ogni iterazione si trova l’intersezione con l’asse delle ascisse della tangente al grafico di f’ nel punto (xk,f’(xk)).

**Algoritmo:**

* Si sceglie un x0 ε R come punto di partenza e si pone k = 0.
* Se f’(xk) ≠ 0 allora xk+1 = xk – f’(xk)/f’’(xk), k = k+1 e si itera
* Altrimenti f’(xk) = 0 STOP

Convergenza quadratica.



**Metodi inesatti**

I metodi inesatti sono metodi che cercano i minimi di una funzione in una variabile nati perché non sempre si può trovare il valore esatto per via del costo computazionale oppure perché non si può risolvere esattamente.

**Condizioni di Armijo-Goldestain-Wolfe**

1. f(x) ≤ f(0) + αf’(0)x Garantisce che x non sia troppo grande. In tale caso il membro destro tende a - ∞ e la condizione non può essere soddisfatta.
2. f’(x) ≥ βf’(0) Garantisce che x non sia troppo piccolo. In tale caso si avrebbe f’(x)~f’(0) e la condizione non potrebbe sussistere.

α,β sono parametri prefissati dall’algoritmo tali che 0 < α < β < 1

**Teorema**

Se f è limitata inferiormente e f’(0) < 0 allora ∃(a,b) tale che le condizioni di A-G-W sono soddisfatte ∀ x ε (a,b).

**Osservazioni**

Se f è convessa si ha la regola:

* la prima condizione è verificata in un intervallo del tipo (0,s).
* la seconda condizione è verificata in un intervallo del tipo (r,∞) con r < s.

Per trovare un punto che soddisfi entrambe le condizioni si può partire da un punto x0 > 0 e procedere con ricerche binarie successive spostandosi a destra o sinistra in base che sia verificata la A o la B.

**Metodo del backtracking**

Si parte con un valore x = x\* > 0 fino a quando la condizione A di A-G-W non è soddisfatta, si moltiplica x per un vettore γε(0,1). Questa procedura garantisce che il punto trovato soddisfi la condizione di discesa per f ma assicura anche che il passo non sia troppo piccolo.

**Algoritmo**

Poni α,γ ε (0,1) e x\* > 0. Calcola il più piccolo numera naturale n tale che f(γnx\*) ≤ f(0) + αf(0)γnx\*

**Metodi di PNL per funzioni di più variabili**

Immagine che contiene testo

Descrizione generata automaticamenteSupponiamo di partire da un punto ammissibile xk e consideriamo la restrizione della funzione f ad una semiretta di direzione dk uscente dal punto xk.

La direzione dk si dice di discesa se γ’(0) < 0, altrimenti si dice di ascesa.

**Teorema**

Se ∇f(xk)\*dk < 0 allora dk è una direzione di ascesa per f nel punto xk.

**Successioni iterative minimizzanti**

I metodi che vedremo costruiscono successioni del tipo

xk+1 = xk + tkdk

dk è una direzione di discesa per f in xk; tk è il passo che può essere calcolato minimizzando la restrizione γ con uno dei metodi (esatti o inesatti) per funzioni di una variabile.

Dalla scelta della direzione e del passo segue che :

f(xk+1) < f(xk) ∀ iterazione k

cioè la successione {f(xk)} è decrescente. L’idea infatti è quella di costruire una successione di punti che converga verso il punto di minimo della funzione. È necessario avere insiemi convessi per non uscire dalla regione ammissibile del problema quando ci si muove nella direzione e del passo scelto. Con le successioni iterative minimizzanti però si potrebbe incappare in un minimo locale e l’algoritmo non si ferma perché non trova più direzioni di discesa. Quindi se:

* Problema convesso (f convessa, D convesso) allora non esistono minimi locali ma solo globali.
* f convessa, ∇f(x\*) = 0 allora x\* minimo assoluto (ma prima devo verificare che esista).
* Problema lineare (f lineare, D lineare) allora non ci sono minimi locali.

**Metodi di PNL non vincolata ( D=Rn)**

Si applicano per trovare un punto stazionario di un problema di PNL non vincolato.

**Metodo del gradiente**

Come direzione di ricerca si sceglie quella opposta al gradiente quindi dk=-∇f(xk). Tale direzione è detta direzione di massima discesa nel punto xk perché è la direzione che minimizza γ’(0) infatti per una generica direzione d con ||d||= 1 si ha che:

γ’(0) = ∇f(xk)d = ||∇f(xk)||cosθk

θk è l’angolo compreso tra i vettori ∇f(xk) e d quindi γ’(0) è minimo quando cosθk = -1 cioè quando la direzione di ∇f(xk) è opposta a quella di d. La restrizione della funzione f ad una semiretta di direzione dk uscente dal punto xk è quindi:

γ(t) = f(xk – t∇f(xk) ) con t ≥ 0

**Immagine che contiene testo

Descrizione generata automaticamenteMetodo del gradiente con ricerca esatta del passo**

L’algoritmo si ferma quando le iterazioni successive differiscono di poco.

**Teorema**

Se f è coerciva e continua allora comunque si sceglie il punto iniziale x0, il metodo del gradiente proiettato con ricerca esatta del passo o trova un punto stazionario di f in un numero finito di iterazioni oppure genera una successione {xk} che converge ad un punto stazionario di f.

**Immagine che contiene testo

Descrizione generata automaticamenteEsempio**

Gli svantaggi di questo metodo sono:

* Difficoltà della ricerca esatta perché ad ogni passo bisogna trovare il minimo di una funzione.
* Comportamento a zig zag dovuto al fatto che due iterazioni successive sono ortogonali.

**Metodo del gradiente con ricerca inesatta del passo**

Ad ogni iterazione il passo tk è ottenuto applicando le condizioni di A-G-W alla restrizione γ(t) = f(xk-t∇f(xk)) ossia si cerca un passo che soddisfi:

1. γ(t) ≤ γ(0) + αγ’(0)tk
2. γ(t) ≥ βγ’(0)

con 0 ≤ α ≤ β ≤ 1.

**Teorema**

Se f è coerciva e continua allora il metodo del gradiente con ricerca inesatta del passo, comunque si sceglie il punto iniziale x0, o trova un punto stazionario di f oppure genera una successione {xk} che converge ad un punto stazionario x\* di f.

**Metodo di Newton**

Come direzione dei ricerca si usa dk= -[∇2f(xk)]-1 \* ∇f(xk).

Il punto successivo si calcola come: xk+1= xk-tk[∇2f(xk)]-1 \* ∇f(xk)

**Metodo di Newton con passo fissato**

* Si sceglie x0 ε Rn e si pone k = 0.
* Se ∇f(xk)≠0 si pone:
  + dk= -[∇2f(xk)]-1 \* ∇f(xk)
  + xk+1=xk+dk
  + k = k+1

e si ripete il procedimento.

**Teorema**

Supponiamo che x\* sia un minimo locale di f tale che la matrice ∇2f(x\*) è definita positiva. Allora esiste un intorno U di x\* tale che comunque si sceglie x0 ε U, la successione {xk} generata dal metodo di Newton converge ad x\* e la convergenza è quadratica. Il metodo di Newton può essere utilizzato con la ricerca del passo esatta o inesatta. In tal caso la convergenza è globale e non solo locale.

**Metodi di PNL vincolata**

Si applicano per trovare un punto stazionario di un problema di PNL vincolato.

**Metodo di Frank-Wolfe**

Immagine che contiene testo

Descrizione generata automaticamenteDescriveremo tale metodo nel caso in cui la regione ammissibile sia un poliedro per semplicità ma il metodo è estendibile anche ai domini convessi in generale. Consideriamo problemi del tipo:

f:Rn->R bεRm A ε Rm\*n

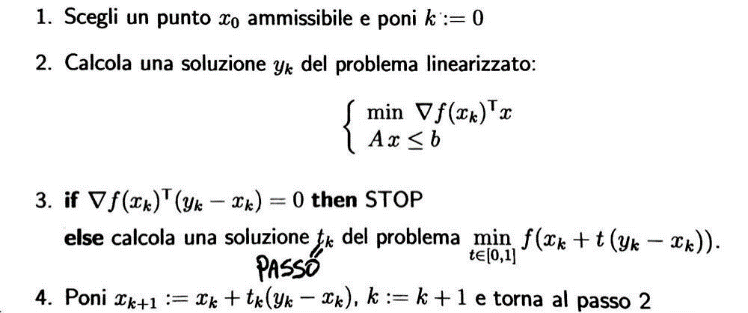
Immagine che contiene testo

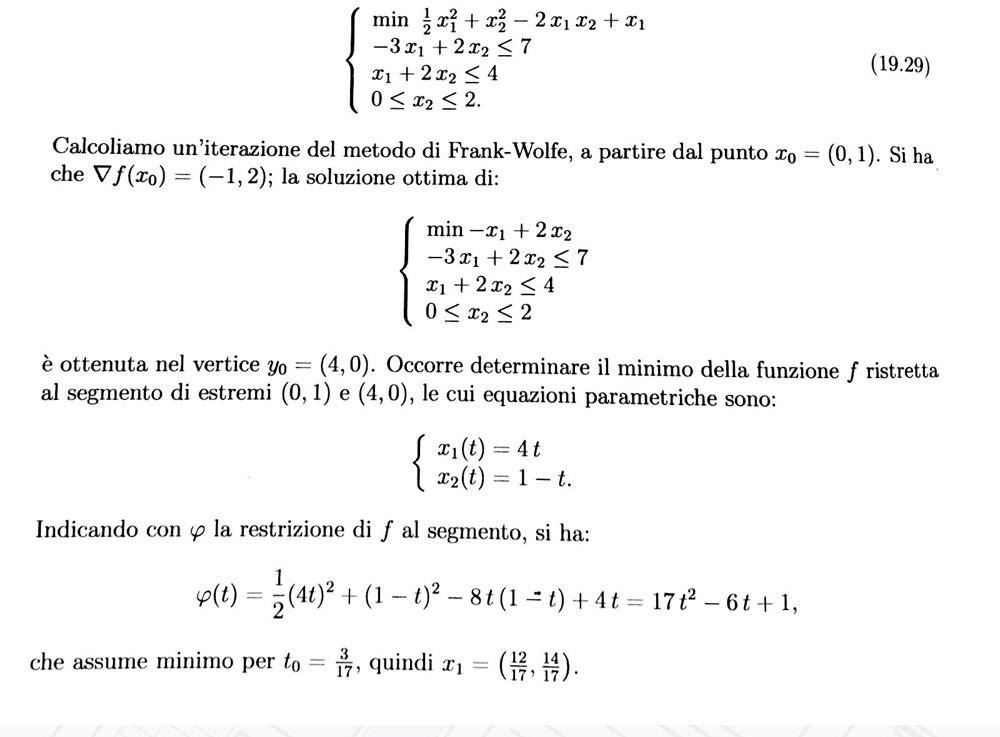
Descrizione generata automaticamenteSupponiamo di partire da un punto ammissibile xk. Calcoliamo ∇f(xk) e risolviamo il problema linearizzato nello stesso punto xk, cioè il seguente problema di PL:

Immagine che contiene testo

Descrizione generata automaticamenteEd indichiamo con yk la soluzione di tale problema lineare. Se anche il punto xk risolve il problema linearizzato, cioè ∇f(xk)yk= ∇f(xk)xk allora l’algoritmo si ferma perché xk è un punto stazionario del problema iniziale. Dato che xk è un punto stazionario allora deve esistere un vettore di moltiplicatori λkεRn tali che (xk,λk) è la soluzione del sistema LKKT del problema iniziale e cioè:

****Se xk non risolve il problema linearizzato, cioè ∇f(xk)yk < ∇f(xk)xk allora ∇f(xk)(yk – xk)<0 ossia yk-xk è una direzione di discesa per f. In tale caso il metodo trova il passo come tk ε argmin f(xk + tdk) con t ε [0,1] con dk= yk-xk . xk + tdk è l’equazione del segmento che congiunge i punti xk e yk.

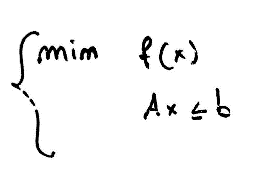
**Algoritmo**

**Esempio**

**Teorema**

Se f ε C1 la successione {xk} costruita con il metodo di Frank-Wolfe converge a x\* e x\* è una soluzione del sistema LKKT. Se f è convessa allora x\* è un minimo assoluto.

**Metodo del gradiente proiettato**

Consideriamo il seguente problema in cui la regione ammissibile è un poliedro:

Alla k-esima iterazione se il punto corrente xk è interno alla regione ammissibile si sceglie la direzione dk = -∇f(xk) . Se invece il punto xk appartiene alla frontiera della regione ammissibile si sceglie dk uguale alla proiezione ortogonale di -∇f(xk) sul sottospazio vettoriale definito dai vincoli attivi nel punto xk.

**Algoritmo**

