In: Oil alle ? Dans 15, on roil que (£097) borne inf. => done a part les Dique daines) borne inf. => mous innuind als 15. (I when bone my bone int) Soit 3-2 Le dernier pholiereur de 2-1... queque a la balle ! . - Longer Abolton . > pordart & lump Da, the he markine horacilled. 13+17 3 = 57 Soit 2-1 Le dunier pholiument de a. Invariable and say her A sout of um tacke que attent le makespan. 1/1.14 Proof: Considerin Nords Maller por 12 15 + graph: Nord gen 825 FINI pendo vient late puble it barboniantes de fero de la lorde d Theouni. 15 wh um 2-1 aprox pour pl hu 1 (mo. I of plumine publication, how doing the lumine. To go of representation of the realty of one be = graph de pulletines = DAG = dewelch stegelie liagh (per forward comment. B. I am one south of it here of a later of doct the Minimum pour gre of commune. input: n tadus of, m machine stinkque W = airs of the les behin-Analyse de LS on Pl Pue 1 Concer et 197 fait a puttern. 1-w2 => on monners Lewistrand Le makropen de la mailier i (den pode fin) ist & d'arun makropen de la mailier 1.

(3+200)2>+ <3+20> m < 20073-m < 190m 2-1m m 1m3>+ <= Alon, V te, in te highlichen de A, on a une dollkon sols & C (001(I) + $\frac{\Delta(\mp)}{2^4}$)
12007: (Lette = recturbe decholomique du plus publi me que ne sono pue rejette par Malso. hopuil!: (coluct-appear down & appear) doit boy (I) it bing (I) I bing (I) ! boy (I) & bug (I). (I) TO > W < JIATE = W < OPT(I) . (I) TOO I was not the first on LOPT (I). - said postuin une solution de cold & e u plock minimalier: une e (ex) duch appear A wit un algentime que, VI, Vu. Parkie 2: Technique de la dual apronimation. of which (in ti) > show <= Mad + d indusor of do wound + wy wy and + wy sign on ing the sound of the world of the sound of A: 65 Am 911 (may 9- chaque machen; a un vilou si. Analyse hight = in the word qu'arail. (2-1) 2 + 2 = 2 + 2-W > 21 tubbo no 121 and 1 was (com) de (1) on din 2 12 1 4 mas)

and 2 min I'= I \ { Int (| 0 | 0 |) h = M (| H | I | H) , h we foil sin (of Lenna 24) 5 mpt - foll 2 Int: an algo quely ide : the small (not) at facilie is that $\lim_{\lambda \to \infty} \frac{3l_{\infty}}{\lambda} = \lim_{\lambda \to \infty} \frac{3l_{\infty}}{\lambda} = \lim_{\lambda \to \infty} \frac{1}{\lambda} = \lim_{\lambda \to \infty} \frac{1}$ I = sinhale & whicheld me so movement of us were followed appear pour GII Emer. A ... & on. (mothers say full subsection of moderness believes) In log (e D(I)) ilescolusions (car A & colt + e D(I) 2 / (I) 2).

1. (1) 2 / (I) 2 / (Corollain: Guand & problim ut a rateur inthing on obtaint une "nois" e aprox (A < COPT). Ame, apie de idituliens, tal. ¿ & boug = & (bing + bough - bing &) II . If I had a how that the hid whit ISA is a It ale cong shot! It wings de le abichalonie (red sprad in fin wad a) & find = find 1 that = find a faithful (it had it) A A A (F) = fug - harg= 70 6 On ra my upu hu ihisakion, on a: > une solution set & e bay &)

(& bay &)

4 19087: Le medrand ou l'en purt algane in est dans queals. Linua 3: 6 per fact, A(W, I,;) & 34. Linne 24: quedy (W, i, I modi.) : but que I modine I, i s l' ém que find coront w. (I)M (I) 140 Mgp (30 3) 4 < 132 = (1) M vide queely qui FAIL, who when he wishing it has the = A doction 1.1 . B. A (W, I, 1) ford. E'cliet Laped hunny que fords abor don linne pliched Phoof: - pour 1=m, de limme 2: Yi A(w, I, i) foil => I par forable me i.m. S. 5* n'a par de y e by; shidule mi => [] de dolution (apui swap) restruite à 1+1 ... m restruit prous que I' sot fairable sur 14... m. co sim, maper a et y. 5. 5* a un liche y & Big; me machine; ... The machine; ... I gagni, 5* withink à it ... m est une solution de I. (on any of mindows I To to the mediation E $T = \{z\} \cup T = T \text{ both out } T = \{z\} \cup T = T \text{ both out } T = T \text{ founds} T = T \text{ fou$ Linne 1: I fairable sen i m (in w) => I fairable sen iti. m (in w).

(I) y/y = - I (1) x = (1) 10 in on 1 4 x (3100 in orly : turbus got, sot as the pollin surrant: A (gop,): bad I publim (minimus), bad 17: Inn 12) Miller gap reduction. done aplique à t= t an mes rallen = phol (n), on aurait able pall pour to, que sat No-had a. 6) h'on mail FPTAS, on amout woolds nach in poly (OPTCI) it in poly (poly (mos ratus intout, n) In That M. had king but it OPT(I) it punds poly born => no FPITS (when P=NP). (for in: non pg. 2 poly (n)). (IN=9 ashow) INTA ON <= unad play (IDTO & brook IN he IT is (Collecte , Lest To pb ale minimisation. in solution mark in poly (OPF(I)). ELL OPTIE) show Lance to FPIAS and un that & formant = you were how solution marker, it fout que A LOPT(I) + EOPT(I) PROOF: Am FPTAS, VE 1 je pun mon A ((1+ 2) 0PT (I) in poly (1, 1) Throw I: & probline a rolline inthine, FPTAS = risold in poly (OPT(I)). William de MP hardren (=> pour "ve FP MS"). Yorden he objekts do has a now in manimisest he said Doublake Malakit my & yed its prigo w om bod ny. 2) In me FPTAS pour NKP Enstal Sum C por a dos de harle a, ... a, 11 > 3/2 dued apper per l'armer : my 1 17

thyre & b-1 => 0PT>4 (car off & 2 => thyre & A) gares Toute sol & S, on it oblige de faire (me rich =>) On it oblige de doining the liches du bas ; | Modern due of he best of the first is destroyed at the first is destroyed at the first in the f Shoot: And then thous thous the sour that the source of th Theorem: gry 413 rd NF- hard pour PI Rud I (max.) and (1= (2016) · gap puerning reduction: Mobile dynie un pl gay new un pl gap. Ext: . gag introducing reduction: reduct of un pb de alicision to rea un pb gap. Los: gop is broduds, richer as his packing 1) of the A(I) 190 (I) A(I) 190 (I) A (I) 190 (I) IN MANY I + A(I) & A(I) & B. A(I) & SON (I) & A(I) & PROOF: Enquerion gove l'on ail A (polynomial), une l'apper, 1' < 1 > comment closude gap.? Theorem: 5. gap, M. hard, alow per de 1 uppor ane 12, (under 8-18). fernangen. On third to definition de NP-hard pour to po de gaga.

as tump!, or sol ably de medre he n-to bethe retainthe de bes (now can per ale demindre de bes (now can court s)

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