

```
total 1184
drwx----- 2 mignotte mignotte 4096 Jul 26 15:38 .
drwx----- 5 mignotte mignotte 4096 Jul 21 15:20 ..
-rwx----- 1 mignotte mignotte 105 Jul 21 15:19 compilegcc
-rwx----- 1 mignotte mignotte 12651 Jul 21 15:19 FonctionDemo2.c
-rwx----- 1 mignotte mignotte 2068 Jul 21 15:19 FonctionDemo2.h
-rw-rw-r-- 1 mignotte mignotte 14280 Jul 26 15:38 FonctionDemo2.o
-rwx----- 1 mignotte mignotte 262161 Jul 26 15:38 image-Out1.pgm
-rwx----- 1 mignotte mignotte 262161 Jul 26 15:38 image-Out2.pgm
-rwx----- 1 mignotte mignotte 65562 Jul 21 15:19 lena.pgm
-rwxrwxr-x 1 mignotte mignotte 22445 Jul 26 15:38 Tp2_IFT3205_2-1
-rwx----- 1 mignotte mignotte 3450 Jul 21 15:19 Tp2_IFT3205_2-1.c
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_1.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_2.pgm
mignotte@goldorak:~/.../TpIFT3205_Intercor/prog$ ./compilegcc Tp2_IFT3205_2-1
```

compilation du programme Tp2_IFT3205_2-1.c

mignotte@goldorak:~/.../TpIFT3205_Intercor/prog\$./Tp2_IFT3205_2-1

---> Ouverture de UdM_1.pgm

--Entete--

P5

CREATOR: GIMP PNM Filter Version 1.1

512 512

255

---> Ouverture de UdM_2.pgm

--Entete--

P5

CREATOR: GIMP PNM Filter Version 1.1

512 512

255

Sauvegarde de image-Out1 au format pgm

Sauvegarde de image-Out2 au format pgm

display image-Out1.pgm& display image-Out2.pgm&

C'est fini ...

mignotte@goldorak:~/.../TpIFT3205_Intercor/prog\$

ImageMagick: Image-Out1.pgm



```
mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$ ./Tp2_IFT3205_2-1
```

```
--> Ouverture de Udm_1.pgm
```

```
--Entete--
```

```
-----
```

```
P5
```

```
# CREATOR: GIMP PNM Filter Version
```

```
512 512
```

```
255
```

```
--> Ouverture de Udm_2.pgm
```

```
--Entete--
```

```
-----
```

```
P5
```

```
# CREATOR: GIMP PNM Filter Version
```

```
512 512
```

```
255
```

```
Sauvegarde de image-Out1 au forma
```

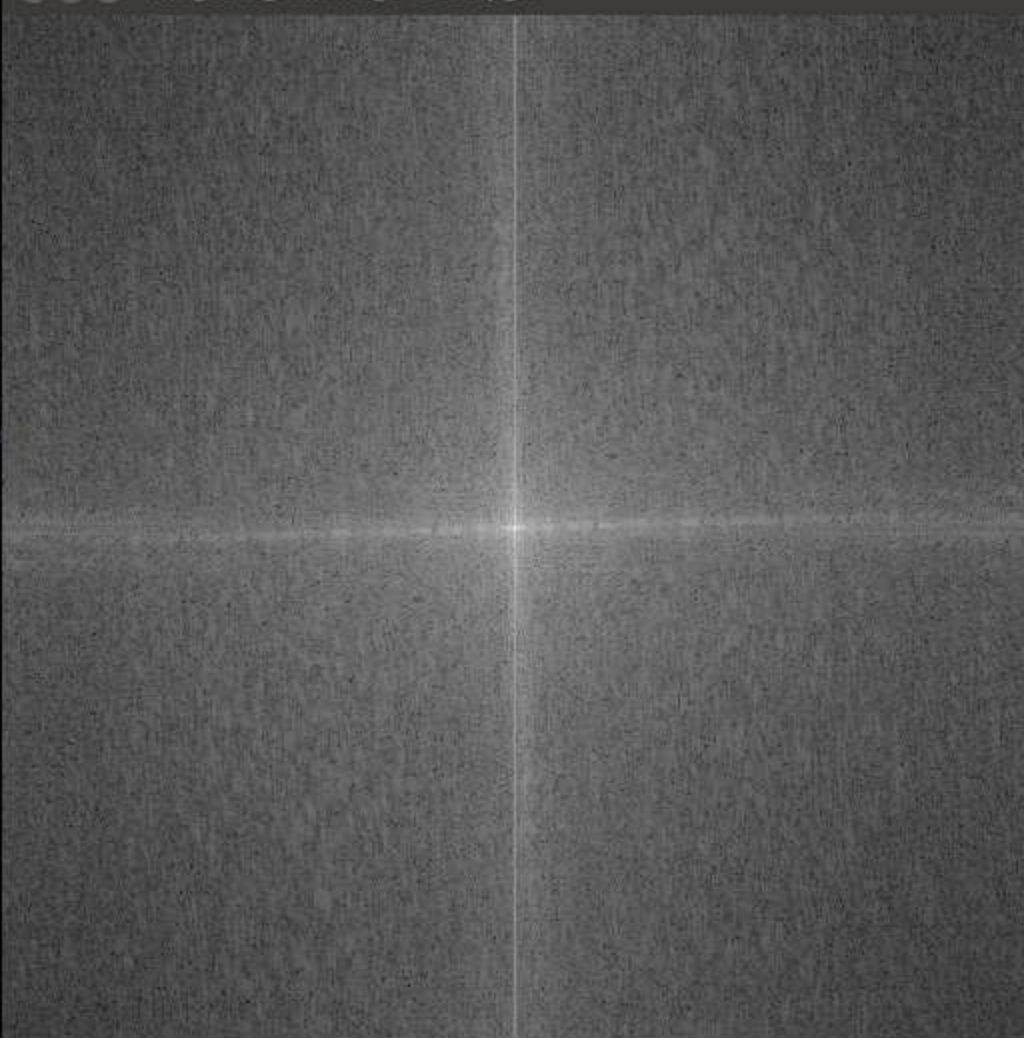
```
Sauvegarde de image-Out2 au forma
```

```
display image-Out1.pgm& display i
```

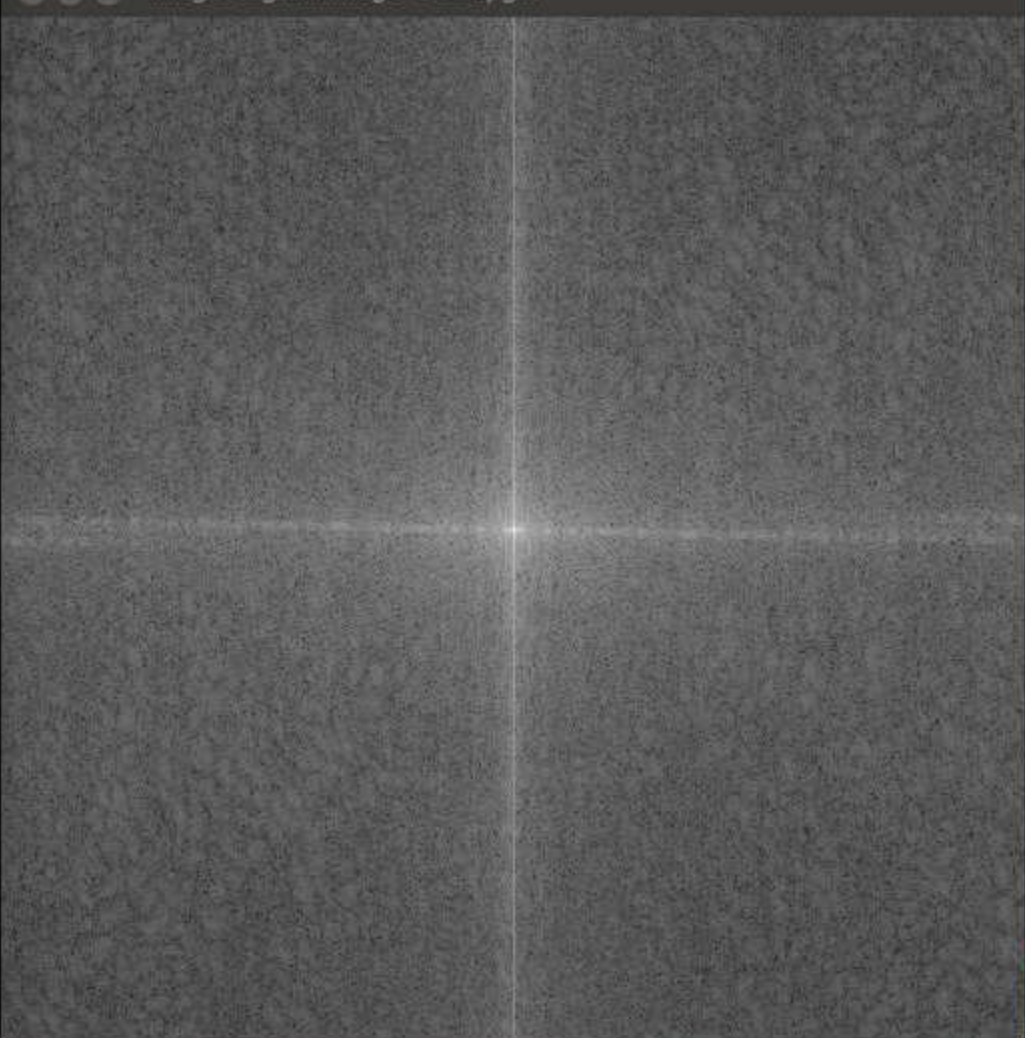
```
C'est fini ...
```

```
mignotte@goldorak:~/.../TpIFT3205_
```

ImageMagick: image-Out1.pgm



ImageMagick: image-Out2.pgm




```
-rwX----- 1 mignotte mignotte 1048632 Jul 21 15:19 image-TpIFT3205-2-6.pgm
-rwx----- 1 mignotte mignotte 65562 Jul 21 15:19 lena.pgm
-rwx----- 1 mignotte mignotte 65553 Jul 26 15:50 lena_rotated.pgm
-rwxrwxr-x 1 mignotte mignotte 22621 Jul 26 15:50 Tp2_IFT3205_2-1
-rwx----- 1 mignotte mignotte 4978 Jul 21 15:19 Tp2_IFT3205_2-1.c
-rwxrwxr-x 1 mignotte mignotte 22621 Jul 26 15:50 Tp2_IFT3205_2-2
-rwx----- 1 mignotte mignotte 3868 Jul 21 15:19 Tp2_IFT3205_2-2.c
-rwx----- 1 mignotte mignotte 21729 Jul 21 15:19 Tp2_IFT3205_2-3
-rwx----- 1 mignotte mignotte 7179 Jul 21 15:19 Tp2_IFT3205_2-3.c
-rwx----- 1 mignotte mignotte 22414 Jul 21 15:19 Tp2_IFT3205_2-4
-rwx----- 1 mignotte mignotte 7208 Jul 21 15:19 Tp2_IFT3205_2-4.c
-rwx----- 1 mignotte mignotte 23344 Jul 21 15:19 Tp2_IFT3205_2-5
-rwx----- 1 mignotte mignotte 9230 Jul 21 15:19 Tp2_IFT3205_2-5.c
-rwx----- 1 mignotte mignotte 24048 Jul 21 15:19 Tp2_IFT3205_2-6
-rwx----- 1 mignotte mignotte 10101 Jul 21 15:19 Tp2_IFT3205_2-6.c
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_1.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_2.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_2_Rotated.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_ImgDiracTranslation.pgm
-rwx----- 1 mignotte mignotte 1048632 Jul 21 15:19 UdM_ImgRecaler.pgm
-rwx----- 1 mignotte mignotte 455268 Jul 21 15:19 UdM.pgm
drwx----- 2 mignotte mignotte 4096 Jul 26 15:43 Ztmp
mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$ ./compilegcc Tp2_IFT3205_2-2
```

compilation du programme Tp2_IFT3205_2-2.c

mignotte@goldorak:~/.../TpIFT3205_Intercor/solution\$./Tp2_IFT3205_2-2

--> Ouverture de lena.pgm

--Entete--

P5

CREATOR

256 256

255

Sauvegarde de lena_rotated au format pgm

display lena_rotated.pgm&

C'est fini ...

mignotte@goldorak:~/.../TpIFT3205_Intercor/solution\$ display lena.pgm&

[1] 15366

mignotte@goldorak:~/.../TpIFT3205_Intercor/solution\$

ImageMagick: lena.pgm



ImageMagick: lena_rotated



```
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_1.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_2.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_2_Rotated.pgm
-rwx----- 1 mignotte mignotte 262198 Jul 21 15:19 UdM_ImgDiracTranslation.pgm
-rwx----- 1 mignotte mignotte 1048632 Jul 21 15:19 UdM_ImgRecaler.pgm
-rwx----- 1 mignotte mignotte 455268 Jul 21 15:19 UdM.pgm
drwx----- 2 mignotte mignotte 4096 Jul 26 15:43 Ztmp
mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$ ./compilegcc Tp2_IFT3205_2-3
```

compilation du programme Tp2_IFT3205_2-3.c

mignotte@goldorak:~/.../TpIFT3205_Intercor/solution\$./Tp2_IFT3205_2-3

---> Ouverture de Udm_1.pgm

--Entete--

```
P5
# CREATOR: GIMP PNM Filter Version 1.1
512 512
255
```

---> Ouverture de Udm_2.pgm

--Entete--

```
P5
# CREATOR: GIMP PNM Filter Version 1.1
512 512
255
```

```
[-0.196::3991]>[-0.191::3978]>[-0.186::3961]>[-0.181::3947]>[-0.176::3931]>[-0.171::3915]>[-0.166::3902]>[-0.161::3891]>[-0.156::3877]>[-0.151::3859]>[-0.146::3839]>[-0.141::3823]>[-0.136::3804]>[-0.131::3778]>[-0.126::3757]>[-0.121::3746]>[-0.116::3727]>[-0.111::3702]>[-0.106::3673]>[-0.101::3645]>[-0.096::3613]>[-0.091::3581]>[-0.086::3551]>[-0.081::3508]>[-0.076::3462]>[-0.071::3408]>[-0.066::3347]>[-0.061::3267]>[-0.056::3154]>[-0.051::3087]>[-0.046::3165]>[-0.041::3233]>[-0.036::3278]>[-0.031::3319]>[-0.026::3339]>[-0.021::3356]>[-0.016::3358]>[-0.011::3359]>[-0.006::3369]>[-0.001::3420]>[0.004::3391]>[0.009::3441]>[0.014::3476]>[0.019::3506]>[0.024::3534]>[0.029::3566]>[0.034::3595]>[0.039::3620]>[0.044::3647]>[0.049::3669]>[0.054::3689]>[0.059::3708]>[0.064::3727]>[0.069::3747]>[0.074::3764]>[0.079::3786]>[0.084::3806]>[0.089::3824]>[0.094::3841]>[0.099::3860]>[0.104::3877]>[0.109::3889]>[0.114::3903]>[0.119::3912]>[0.124::3928]>[0.129::3944]>[0.134::3954]>[0.139::3971]>[0.144::3985]>[0.149::3997]>[0.154::4009]>[0.159::4020]>[0.164::4035]>[0.169::4047]>[0.174::4054]>[0.179::4063]>[0.184::4069]>[0.189::4081]>[0.194::4091]
```

Angle >>> [-0.051350]

Sauvegarde de image-Out1 au format pgm

Sauvegarde de image-Out2 au format pgm

C'est fini ...

mignotte@goldorak:~/.../TpIFT3205_Intercor/solution\$

```
mignotte@goldorak:~/.../TpIFT3205
```

A black and white photograph of the New York City skyline. The Empire State Building is the most prominent structure on the left, showing its iconic Art Deco design with a dark, rounded top. To its right, a large, multi-story building with many windows stretches across the middle ground. In the background, other skyscrapers are visible, including one with a pointed spire on the far right. The foreground is filled with the dark, leafless branches of trees, suggesting a winter or late autumn setting. The sky is a uniform, light gray.

A black and white photograph of the New York City skyline. The Empire State Building is the central focus on the left, showing its iconic Art Deco design with a dark, rounded top. To its right, other skyscrapers are visible, including one with a pointed spire. The foreground is filled with the silhouettes of bare trees, suggesting a winter or late autumn setting. The sky is a uniform, light gray.

mignotte@goldorak: ~/.../TpIFT3205_Intercor/solution

mignotte@goldorak: ~/.../TpIFT3205_Intercor/solution 182x40

```
-rwx----- 1 mignotte mignotte 1048632 Jul 21 15:19 Udm_ImgRecaler.pgm
-rwx----- 1 mignotte mignotte 455268 Jul 21 15:19 Udm.pgm
drwx----- 2 mignotte mignotte 4096 Jul 26 15:43 Ztmp
mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$
mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$
mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$ ./compilegcc Tp2_IFT3205_2-5
```

compilation du programme Tp2_IFT3205_2-5.c

mignotte@goldorak:~/.../TpIFT3205_Intercor/solution\$./Tp2_IFT3205_2-5

--> Ouverture de Udm_1.pgm

--Entete--

P5

CREATOR: GIMP PNM Filter Version 1.1

512 512

255

--> Ouverture de Udm_2.pgm

--Entete--

P5

CREATOR: GIMP PNM Filter Version 1.1

512 512

255

[-0.196::3991]>[-0.191::3978]>[-0.186::3961]>[-0.181::3947]>[-0.176::3931]>[-0.171::3915]>[-0.166::3900]>[-0.161::3884]>[-0.156::3868]>[-0.151::3852]>[-0.146::3836]>[-0.141::3820]>[-0.136::3804]>[-0.131::3788]>[-0.126::3772]>[-0.121::3756]>[-0.116::3740]>[-0.111::3724]>[-0.106::3708]>[-0.101::3692]>[-0.096::3676]>[-0.091::3660]>[-0.086::3644]>[-0.081::3628]>[-0.076::3612]>[-0.071::3596]>[-0.066::3580]>[-0.061::3564]>[-0.056::3548]>[-0.051::3532]>[-0.046::3516]>[-0.041::3500]>[-0.036::3484]>[-0.031::3468]>[-0.026::3452]>[-0.021::3436]>[-0.016::3420]>[-0.011::3404]>[-0.006::3388]>[-0.001::3372]>[0.004::3356]>[0.009::3340]>[0.014::3324]>[0.019::3308]>[0.024::3292]>[0.029::3276]>[0.034::3260]>[0.039::3244]>[0.044::3228]>[0.049::3212]>[0.054::3196]>[0.059::3180]>[0.064::3164]>[0.069::3148]>[0.074::3132]>[0.079::3116]>[0.084::3100]>[0.089::3084]>[0.094::3068]>[0.099::3052]>[0.104::3036]>[0.109::3020]>[0.114::3004]>[0.119::2988]>[0.124::2972]>[0.129::2956]>[0.134::2940]>[0.139::2924]>[0.144::2908]>[0.149::2892]>[0.154::2876]>[0.159::2860]>[0.164::2844]>[0.169::2828]>[0.174::2812]>[0.179::2796]>[0.184::2780]>[0.189::2764]>[0.194::2748]>[0.199::2732]>[0.204::2716]>[0.209::2700]>[0.214::2684]>[0.219::2668]>[0.224::2652]>[0.229::2636]>[0.234::2620]>[0.239::2604]>[0.244::2588]>[0.249::2572]>[0.254::2556]>[0.259::2540]>[0.264::2524]>[0.269::2508]>[0.274::2492]>[0.279::2476]>[0.284::2460]>[0.289::2444]>[0.294::2428]>[0.299::2412]>[0.304::2396]>[0.309::2380]>[0.314::2364]>[0.319::2348]>[0.324::2332]>[0.329::2316]>[0.334::2300]>[0.339::2284]>[0.344::2268]>[0.349::2252]>[0.354::2236]>[0.359::2220]>[0.364::2204]>[0.369::2188]>[0.374::2172]>[0.379::2156]>[0.384::2140]>[0.389::2124]>[0.394::2108]>[0.399::2092]>[0.404::2076]>[0.409::2060]>[0.414::2044]>[0.419::2028]>[0.424::2012]>[0.429::1996]>[0.434::1980]>[0.439::1964]>[0.444::1948]>[0.449::1932]>[0.454::1916]>[0.459::1900]>[0.464::1884]>[0.469::1868]>[0.474::1852]>[0.479::1836]>[0.484::1820]>[0.489::1804]>[0.494::1788]>[0.499::1772]>[0.504::1756]>[0.509::1740]>[0.514::1724]>[0.519::1708]>[0.524::1692]>[0.529::1676]>[0.534::1660]>[0.539::1644]>[0.544::1628]>[0.549::1612]>[0.554::1596]>[0.559::1580]>[0.564::1564]>[0.569::1548]>[0.574::1532]>[0.579::1516]>[0.584::1500]>[0.589::1484]>[0.594::1468]>[0.599::1452]>[0.604::1436]>[0.609::1420]>[0.614::1404]>[0.619::1388]>[0.624::1372]>[0.629::1356]>[0.634::1340]>[0.639::1324]>[0.644::1308]>[0.649::1292]>[0.654::1276]>[0.659::1260]>[0.664::1244]>[0.669::1228]>[0.674::1212]>[0.679::1196]>[0.684::1180]>[0.689::1164]>[0.694::1148]>[0.699::1132]>[0.704::1116]>[0.709::1100]>[0.714::1084]>[0.719::1068]>[0.724::1052]>[0.729::1036]>[0.734::1020]>[0.739::1004]>[0.744::988]>[0.749::972]>[0.754::956]>[0.759::940]>[0.764::924]>[0.769::908]>[0.774::892]>[0.779::876]>[0.784::860]>[0.789::844]>[0.794::828]>[0.799::812]>[0.804::796]>[0.809::780]>[0.814::764]>[0.819::748]>[0.824::732]>[0.829::716]>[0.834::700]>[0.839::684]>[0.844::668]>[0.849::652]>[0.854::636]>[0.859::620]>[0.864::604]>[0.869::588]>[0.874::572]>[0.879::556]>[0.884::540]>[0.889::524]>[0.894::508]>[0.899::492]>[0.904::476]>[0.909::460]>[0.914::444]>[0.919::428]>[0.924::412]>[0.929::396]>[0.934::380]>[0.939::364]>[0.944::348]>[0.949::332]>[0.954::316]>[0.959::300]>[0.964::284]>[0.969::268]>[0.974::252]>[0.979::236]>[0.984::220]>[0.989::204]>[0.994::188]>[0.999::172]>[1.004::156]>[1.009::140]>[1.014::124]>[1.019::108]>[1.024::92]>[1.029::76]>[1.034::60]>[1.039::44]>[1.044::28]>[1.049::12]>[1.054::-4]>[1.059::-20]>[1.064::-36]>[1.069::-52]>[1.074::-68]>[1.079::-84]>[1.084::-100]>[1.089::-116]>[1.094::-132]>[1.099::-148]>[1.104::-164]>[1.109::-180]>[1.114::-196]>[1.119::-212]>[1.124::-228]>[1.129::-244]>[1.134::-260]>[1.139::-276]>[1.144::-292]>[1.149::-308]>[1.154::-324]>[1.159::-340]>[1.164::-356]>[1.169::-372]>[1.174::-388]>[1.179::-404]>[1.184::-420]>[1.189::-436]>[1.194::-452]>[1.199::-468]>[1.204::-484]>[1.209::-500]>[1.214::-516]>[1.219::-532]>[1.224::-548]>[1.229::-564]>[1.234::-580]>[1.239::-596]>[1.244::-612]>[1.249::-628]>[1.254::-644]>[1.259::-660]>[1.264::-676]>[1.269::-692]>[1.274::-708]>[1.279::-724]>[1.284::-740]>[1.289::-756]>[1.294::-772]>[1.299::-788]>[1.304::-804]>[1.309::-820]>[1.314::-836]>[1.319::-852]>[1.324::-868]>[1.329::-884]>[1.334::-900]>[1.339::-916]>[1.344::-932]>[1.349::-948]>[1.354::-964]>[1.359::-980]>[1.364::-996]>[1.369::-1012]>[1.374::-1028]>[1.379::-1044]>[1.384::-1060]>[1.389::-1076]>[1.394::-1092]>[1.399::-1108]>[1.404::-1124]>[1.409::-1140]>[1.414::-1156]>[1.419::-1172]>[1.424::-1188]>[1.429::-1204]>[1.434::-1220]>[1.439::-1236]>[1.444::-1252]>[1.449::-1268]>[1.454::-1284]>[1.459::-1300]>[1.464::-1316]>[1.469::-1332]>[1.474::-1348]>[1.479::-1364]>[1.484::-1380]>[1.489::-1396]>[1.494::-1412]>[1.499::-1428]>[1.504::-1444]>[1.509::-1460]>[1.514::-1476]>[1.519::-1492]>[1.524::-1508]>[1.529::-1524]>[1.534::-1540]>[1.539::-1556]>[1.544::-1572]>[1.549::-1588]>[1.554::-1604]>[1.559::-1620]>[1.564::-1636]>[1.569::-1652]>[1.574::-1668]>[1.579::-1684]>[1.584::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mignotte@goldorak:~/.../TpIFT3205_Intercor/solution$
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