◎ 视频特性TI(时间信息)和SI(空间信息)的计算工具:TlandSI

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TI (时间信息)和SI (空间信息)计算工具文章列表:

视频特性TI(时间信息)和SI(空间信息)的计算工具:TlandSI

视频特性TI(时间信息)和SI(空间信息)的计算工具:TlandSI-压缩码流版

做视频评价试验的时候,需要根据一定的条件选择有代表性的视频序列。ITU-R BT.1788建议使用时间信息(TI, Temporal perceptual Information,也可以称时间复杂度)和空间信息(SI,Spatial perceptual Information,也可以称空间复杂度)来衡量视频的特性。

TI, SI概念出处《ITU-R BT.1788 建议书》: http://download.csdn.net/detail/leixiaohua1020/6423425

项目主页

SourceForge: https://sourceforge.net/projects/tiandsi/

Github: https://github.com/leixiaohua1020/TlandSI

开源中国: http://git.oschina.net/leixiaohua1020/TlandSI

TI和SI的概念

SI表征一帧图像的空间细节量。空间上越复杂的场景,SI值越高。

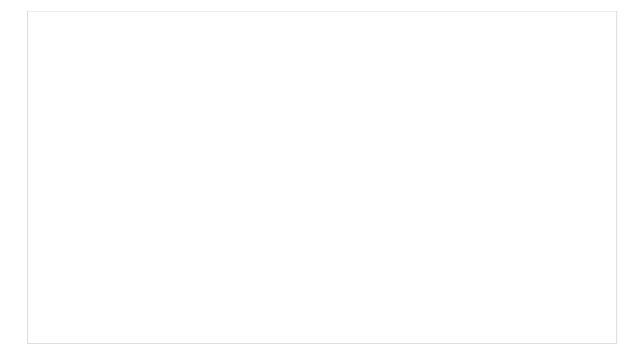
TI表征视频序列的时间变化量。运动程度较高的序列通常会有更高的TI值。

SI计算方法:对第n帧视频进行Sobel滤波,然后对滤波后图像计算标准差。选这些帧中的最大值为SI。

TI计算方法:求n与n-1帧图像的帧差,然后对帧差图像计算标准差。选这些帧中的最大值为TI。

以下截图分别显示Sobel滤波和帧差结果:

Sobel滤	el滤波后结果(反映空间信息,即空间上的复杂度):	
帧差的约	的结果(反映时间信息,即时间上的复杂度):	



附带我们实验室自己编写的图形界面的计算SI和TI的工具(程序+源代码,工程是vs2010的):

TlandSI 1.0: http://download.csdn.net/detail/leixiaohua1020/5546783

TISIcmd (TISI计算工具-命令行版)

最初的工具是图形界面的,但是发现图形界面也不是特别方便,直接用命令行进行批处理会更方便些,因此拜托师弟把代码抽取出来做了个控制台 程序。师弟也很给力,迅速就搞了出来,在这里上传上来。

可以直接使用的exe: http://download.csdn.net/detail/leixiaohua1020/7686483

源代码 (VS2010) : http://download.csdn.net/detail/leixiaohua1020/7686489

使用帮助

- -i 输入YUV文件的路径(必填)
- -x 输入YUV文件的宽度(必填)
- -y 输入YUV文件的高度(必填)
- -f 输入YUV文件的像素格式(必填,420或422或444或400)
- -h 打开帮助

示例

命令行工具命令示例如下,计算了一个分辨率为1920x1080,像素为格式YUV420P,路径为D:\test.yuv的YUV格式的文件。

界面截图如下:

帮助菜单

运行时截图

运行完毕后会在测试序列相同的目录下生成*.csv的结果文件。

输出的数据可以使用Excel进行统计,如下示例统计了某个视频序列的TI,SI和视频帧序号之间的关系。SI较高的地方,视频帧画面的空间细节比较 多(空间复杂度高)。TI较高的地方,视频帧内容运动比较剧烈(时间复杂度高)。

TlandSI 2.0(TISI计算工具-图形界面版)

近期一直在研究视频的时间信息(TI)和空间信息(SI)方面的问题。发现老版本计算TISI的图形界面工具不是很方便。于是心血来潮对其进行了大规模的修改。经过一段时间的反复调试,终于将其做成了自己认为方便好用的计算TI和SI的图形界面工具,命名为 TlandSI 2.0。在这里记录上详细的使用方法。

2.0更新记录:

- *删除了旧版里的TeeChart,感觉作用不大
- *增加了TI和SI计算过程预览窗口,可以查看TI和SI的计算过程。
- *增加了计算过程进度条
- *支持多种格式的YUV视频输入:YUV420P,YUV422P,YUV444P,Y
- *支持批量添加YUV视频
- *增加了"结果"对话框,可以直接在程序中查看TI和SI计算结果
- *增加了"暂停","继续","停止"等按钮,可以控制计算的进度

可以直接使用的exe: http://download.csdn.net/detail/leixiaohua1020/7817721

源代码 (VS2010) : http://download.csdn.net/detail/leixiaohua1020/7817741

使用帮助

双击"TlandSl.exe"打开程序之后,界面如图所示。分成如下几个部分:

添加视频:添加待处理的YUV视频。包括设置视频的地址,宽,高,像素格式(YUV420P,YUV422P,YUV444P,Y)。

视频列表:列表显示待处理的YUV视频。可以删除和清空其中的条目。

显示:可以图形化显示TI和SI的计算信息,即帧差信息和边缘信息。注意会降低计算的速度。

输出选项:"输出TI","输出SI"可以将计算结果保存为.csv的文件。可以使用Excel对这种文件进行处理。"输出帧差信息","输出边缘信息"可以将帧差信息和边缘信息保存为YUV文件。

进度条:显示计算的进度。

控制按钮:控制计算的开始,暂停,继续,停止等。并可以查看计算结果。

最简单的使用方法分成3步:

- 1.在"添加视频"栏(圈1)中设置输入视频的文件路径,宽,高,像素格式(支持YUV420P,YUV422P,YUV444P,Y)。设置完成后,单击"添加"。
- 2.单击"添加"之后,该视频会出现在"视频列表"中(圈2),作为一个待处理的任务。反复前2步可以将所有待计算的视频添加至"视频列表"中。
- 3.视频添加完毕后,单击"计算"即可等待结果了。

如图所示,单击添加之后,将一个分辨率为640x360,像素格式为YUV420P的YUV视频加入到了"视频列表"中。

如果感觉一个一个添加视频效率不高,还可以使用"批量添加视频"功能。该功能位于菜单栏的"文件"菜单中。单击"批量添加视频"之后弹出的对话框

如下图所示。

单击对话框中的"选择"按钮,弹出"打开文件"对话框,此时按住Shift键就可以选择多个视频了。选择完毕后,每个视频文件的地址会在下面的文本框中列出来。

注:批量添加视频要求1批视频的宽,高,像素格式是一样的。

视频添加完成后,单击"计算"即可开始计算TI和SI。下图是计算过程中的截图。从下图中可以看出,正在计算SI。"显示"框中显示的是当前正在计算的视频帧的边缘信息。显示框的右下方"当前值"处输出了当前帧的计算结果。

下图是计算TI时候的截图。

计算过程中,可以单击"暂停"暂时停止计算过程,再次单击则可以继续计算过程。单击"停止"可以中止计算。单击"结果"可以查看计算的结果数值。 下图显示了计算结果对话框,左边显示每帧视频SI值,右边显示每帧视频的TI值。每一行代表一帧视频的SI或者TI。

部分实验数据举例

使用本软件测试了"Video Quality Experts Group (VQEG) HDTV video quality subjective test"中的实验视频,记录结果如下。

原视频可以从CDVL网站下载: http://www.cdvl.org

视频序列参数:

分辨率	1920x1080
像素格式	YUV420P
帧率	25
扫描方式	逐行
帧数	250

视频序列截图:

Src01	0
Src02	
Src04	
Src05	
Src06	
Src09	
Src11	
Src12	
Src14	

所有视频序列的SI结果图。横坐标为视频帧数(总共是250帧),纵坐标是SI值。

所有视频序列的TI结果图。横坐标为视频帧数(总共是250帧),纵坐标是TI值。注意TI值出现尖峰说明视频镜头出现了切换。

所有视频序列SI-TI均值散点图。这张图每个视频序列取了一个TI和SI的平均值,比前两张图更加简单明了。例如,从图中可以看出src06时间上和空间上都很复杂。src04则是时间上复杂空间上简单。src05则是时间上简单空间上复杂。src09在时间上和空间上都比较简单。

上图数据如下表所示:

	src01	src02	src04	src05	src06
SI	38.5505	78.40265	32.44776	76.53766	72.87351
TI	14.53949	4.552836	23.68147	6.58204	29.40821

	src08	src09	src11	src12	src13	src14
SI	42.63796	34.39115	48.50946	81.30184	63.59276	71.72707
TI	8.927161	12.61171	11.03867	7.705533	24.86191	13.18756

附上述前5个视频序列的实验数据(每1行代表1帧,每个视频序列都是250帧):

SI

src01 src02 34.11227 78.40614	src04 35.14113	srct	05	src06
	2E 14112			
20,0004	35.14113	76.	.43104	73.94827
33.92994 78.23272	32.46861	76.	.57767	73.33723
33.65194 78.1629	31.50552	76.	.52155	73.62707
33.61915 78.17674	32.27533	76.	.29674	72.40288
33.7622 78.10899	34.74414	76.	.41402	72.02622
33.83794 77.99973	37.05953	76.	.38589	71.05307
34.04739 77.9866	34.35284	76.	.34818	70.26144
34.19211 77.99291	34.11067	76.	.47707	69.5202
34.13154 78.06079	34.88097	76.	.29524	68.83315
33.98185 78.01164	33.67022	76.	.28047	67.90329
33.78486 77.90832	34.74694	76.	.2787	68.02058
33.54384 77.8715	32.77511	76.	.17498	67.7333
33.29879 77.91121	31.21906	76.	.28723	66.32894
33.22881 78.06065	32.34597	76.	.35584	66.39851
33.17196 78.05287	34.38228	76.	.24612	65.67879
33.07335 78.03114	33.05749	76.	.35513	65.27417
33.19284 77.91381	31.6397	76.	.27476	64.60571
33.20013 77.95229	30.31739	76.	.34165	64.21643
33.21595 78.28729	31.50584	75.	.89256	64.32289
33.10554 78.23237	32.44746	76.	.30622	64.54266
33.01283 78.18332	33.5611	76.	.37514	64.41164
33.00296 78.18473	37.2462	76.	.14949	63.42708

1602000 R1.4913 2602041 76.2094 80.4413 3307961 78.1733 35.76167 76.12759 61.6744 3307962 78.1022 34.6908 76.1299 61.4809 22.95756 77.4811 31.9022 70.2047 61.0700 22.80440 77.8063 21.9423 70.17429 61.0700 22.80440 70.2074 31.9420 70.0075 61.5468 22.80440 70.2074 31.9420 70.0076 61.0430 22.4012 70.2074 31.9420 70.0076 62.2071 70.0076 22.4012 70.0076 32.775 70.0076 70.2074					
38.08424 78.1027 34.00084 71.2040 61.2040 70.0417 60.7200 22.6726 77.4182 32.2002 76.0417 60.7200 22.6726 77.4261 31.9033 75.0003 61.013 22.6840 77.75683 31.4933 75.00083 61.013 22.58432 78.12192 33.9093 61.6017 61.101 22.88274 78.0078 32.2266 76.0008 62.397 22.8874 78.0078 32.7775 76.0008 62.2370 22.8877 78.1202 31.4190 76.0009 62.1818 22.28437 78.1022 31.4190 76.0009 62.1818 22.24470 78.1022 30.0775 76.0009 61.8797 21.4416 78.1191 20.0075 76.0009 61.8797 21.4416 78.1191 20.0071 20.0075 76.0009 61.8797 21.4416 78.1191 20.0071 20.0075 76.0009 61.8797 21.4416 78.1102	33.02386	78.14613	38.03481	76.26094	62.64613
23.63656 77.81182 32.38602 76.0417 61.7266 61.7266 23.1322 77.4861 31.19013 76.17433 61.0969 23.68448 77.7581 31.4818 76.18575 61.65450 22.58630 70.22574 31.4818 76.18575 61.65450 22.45132 70.19935 32.3455 70.08968 62.387 22.68673 70.10716 32.27664 70.21124 62.3811 22.26437 70.10720 32.27664 70.0959 62.3801 22.24437 70.1222 31.1999 70.0059 62.1801 22.24437 70.1923 31.1999 70.0059 62.1801 22.24437 70.1924 30.2126 70.0059 62.1801 22.4447 70.1924 30.2126 75.7022 62.1803 21.4408 77.9904 20.4721 70.0059 61.6229 21.1407 70.1027 30.3718 75.9122 61.6229 21.1407 70.1027 30.2718 75.9124 61	33.07961	78.1703	35.76167	76.12755	61.62434
8212222 77,4791 81,1003 76,14483 61,0480 61,0433 22,68440 77,75583 31,9433 75,0068 61,0433 22,68583 78,29274 31,9418 76,0068 81,5458 81,5458 22,68587 78,19966 33,90683 76,0069 62,297 1138 22,68574 76,21212 32,2426 76,0069 62,297 100 22,28734 76,2022 32,07715 76,0069 62,2991 100 22,2437 76,2022 31,61909 76,0099 62,1838 100 22,24176 78,1896 32,12907 75,9732 61,6095 11,7094 32,11460 78,1891 30,0075 58,9787 01,7094 10,7094 31,1460 77,49904 20,0075 76,0076 10,8997 10,7094 10,8997 31,1473 77,49904 20,6073 76,0076 61,48059 10,1003 32,2723 78,0074 78,0074 78,0076 10,2094 10,2094	33.05342	78.1022	34.60998	76.12599	61.46109
22.86448 77.79893 15.4333 75.0083 61.0433 22.52633 76.2274 21.4811 76.1875 61.50450 22.45122 76.12935 33.86683 76.16817 62.318 22.262337 76.00795 32.27266 76.21124 62.38018 22.26437 76.00795 32.27115 76.04834 62.27011 22.2447 76.199 22.2807 75.0732 62.18638 22.2417 76.1994 22.2807 75.3732 62.18635 21.1460 76.1912 30.08725 75.3787 61.0794 21.1460 76.1924 29.08721 75.02984 61.0797 21.1460 76.1934 29.08721 75.02984 61.07994 21.1460 76.1934 29.08721 75.02984 61.07994 21.1460 76.1934 29.08721 75.02984 61.07994 21.1460 76.1934 21.08684 75.7911 61.07294 21.1476 76.22478 75.02986 61.07890	32.95795	77.91192	33.38902	76.20417	60.72308
25.5861 78.2574 31.4818 76.18575 61.50488 20.45192 78.19615 33.96083 76.1617 62.1118 22.66837 78.12192 32.2455 76.06989 62.297 22.26134 76.0775 22.2666 76.1114 62.38018 22.2617 76.27023 32.07715 76.04834 62.27901 22.26181 76.19225 31.61969 76.0099 62.18383 22.24176 78.15411 30.00725 75.0777 61.7934 23.1480 77.9904 29.08721 76.00964 61.87934 23.1478 77.9904 29.08724 75.99126 61.69226 23.1478 76.30272 30.37195 75.78116 61.5024 23.1478 76.30247 29.09724 75.99126 61.5024 22.1478 76.0071 31.09226 75.78116 61.5024 22.2718 76.0071 75.9014 61.03386 22.2718 76.0071 75.9014 61.03386 22.2718	32.81222	77.4261	31.19013	76.17433	61.07809
24,5192 78,1993 29,0003 76,16817 C,1318 22,36937 78,12192 32,2429 76,06998 62,397 22,3674 76,06795 32,29568 76,01124 62,3011 22,2637 78,07023 20,07115 76,0494 62,27901 32,26381 78,1922 11,999 76,00999 62,1883 22,24476 78,199 21,2807 75,9732 61,7094 21,1409 78,16431 30,08725 75,8787 61,7094 21,1409 78,16431 30,08725 75,8787 61,7094 21,1409 78,16431 30,08725 75,8787 61,7094 21,1409 78,2478 29,8712 75,6064 61,8797 21,1409 78,3473 29,98744 75,5066 61,8797 21,145 78,3473 29,9874 75,5066 61,40524 22,24437 78,0044 31,3226 75,81146 61,20366 22,24457 78,0044 31,3321 75,8072 60,7399	32.68448	77.75583	31.54333	75.90363	61.0433
2.369373 78.12182 32.2256 76.06968 22.2370 22.26734 78.06795 32.22566 76.21124 62.38018 32.28437 78.27023 32.07715 76.04834 62.27901 32.28437 78.27023 31.81969 76.00998 82.18303 32.24476 78.1994 31.1807 75.97332 62.1835 32.11469 78.19431 50.08725 75.8737 61.79934 31.14691 78.19431 50.08726 75.8732 61.79934 31.14691 78.19431 50.08726 75.8732 61.8797 31.14691 78.19421 50.3196 75.9588 61.4390 31.14681 78.26914 59.9588 61.4390 31.2601 78.26914 75.9088 61.40390 32.27146 78.0711 31.3856 75.83146 61.0306 32.24437 78.0724 31.3896 75.89172 61.0105 32.25611 78.07361 31.3896 75.89172 61.4102 32.27146	32.52863	78.22574	31.4918	76.18575	61.50458
22.26573 78.06795 32.22565 76.21124 62.23018 32.28437 78.27023 32.07715 76.04834 62.27901 32.28561 78.19025 31.61969 76.00896 62.18383 32.24176 78.199 32.12807 75.97332 62.16835 32.11469 78.15431 30.08725 75.8787 61.78924 31.14285 77.89044 26.88721 76.00864 61.6926 32.10475 78.10272 30.37195 75.96080 61.6926 32.10478 78.20478 29.99764 75.96080 61.49309 32.12763 78.20478 29.99764 75.96080 61.49309 32.24371 78.20482 31.38328 75.80126 61.2024 32.24437 78.20442 31.38280 75.89172 07.3901 32.242971 78.07488 29.7327 75.80172 07.0301 32.25866 78.14928 21.7327 75.80833 60.35702 32.259615 77.97361 31.88573 75.9152	32.45192	78.19935	33.96083	76.16817	62.1318
32,28437 78,27023 32,07115 76,04834 62,27901 32,26861 78,19225 31,61969 76,00859 62,18313 32,24176 78,199 32,12807 75,97332 62,16935 32,11469 78,15431 30,00725 75,8707 61,79934 31,94285 77,9904 26,60721 76,02964 61,8707 31,9517 78,10272 30,37195 75,95126 61,6226 32,1075 78,26478 29,99764 76,96986 61,49309 32,1073 78,26478 29,99764 76,96986 61,49309 32,1073 78,36711 31,85526 75,83146 61,27004 32,24437 78,20442 31,3526 75,83146 62,17604 32,25041 78,10513 33,38965 75,89172 07,3901 32,24971 78,10613 31,8917 75,9017 61,1105 32,24971 78,1072 75,98172 07,3901 32,25964 78,1028 31,8973 75,9152 04,7296 <	32.36937	78.12192	33.2425	76.06998	62.397
32,26981 78,19225 31,61969 76,00959 62,1883 32,24176 78,199 32,12807 75,97332 62,16835 32,14460 78,15431 30,08725 75,8787 61,79934 31,94285 77,99904 29,88721 76,02964 61,8297 31,96817 78,10272 30,37195 75,96126 61,66226 32,1463 78,26478 29,99764 75,99086 61,49309 32,21463 78,36211 31,69354 75,77911 61,52024 32,22146 78,0071 30,9941 78,62568 61,03366 32,24371 78,10513 33,38965 78,89172 60,7991 32,25961 78,14628 31,1931 75,89583 60,3792 32,25961 77,97361 31,89373 75,9152 60,47296 32,25961 77,9364 31,89323 75,80357 61,31147 32,25961 77,93044 30,9147 75,92856 61,3147 32,25861 78,1586 34,36769 75,8979 <td< td=""><td>32.36734</td><td>78.06795</td><td>32.22656</td><td>76.21124</td><td>62.38018</td></td<>	32.36734	78.06795	32.22656	76.21124	62.38018
32.24176 78.199 32.12807 75.97332 62.16835 32.11469 78.15431 30.08725 75.8787 61.79934 31.94285 77.99904 29.68721 76.02964 61.8797 31.95817 78.10272 30.37195 75.95126 61.66226 32.10475 78.26478 29.9764 75.99086 61.49309 32.2437 78.20442 31.32526 75.8711 61.52024 32.27145 78.0071 30.98941 78.82588 61.03366 32.24971 78.07488 29.72827 75.89071 60.73901 32.5266 78.14928 31.1931 75.89573 60.37702 32.52615 77.97361 31.89573 75.9152 60.47296 32.52616 77.97361 31.89373 75.9152 60.47296 32.5313 77.93044 36.9147 75.92856 61.142054 32.49245 78.49485 31.76907 75.6959 60.83758 32.5272 78.6944 31.88346 75.89778 <t< td=""><td>32.28437</td><td>78.27023</td><td>32.07715</td><td>76.04834</td><td>62.27901</td></t<>	32.28437	78.27023	32.07715	76.04834	62.27901
32.11.469 78.15431 30.08725 78.2877 61.79934 31.94285 77.9994 29.88721 76.02944 61.8797 31.95817 78.0272 30.37195 75.95126 61.6226 32.10475 78.26478 29.99764 75.95086 61.49309 32.1763 78.36211 31.69354 75.7911 61.52024 32.24437 78.20442 31.32526 75.83146 62.17604 32.27145 70.071 30.95941 75.82568 61.03366 32.28041 78.10513 33.38965 75.89172 60.73991 32.24971 76.07468 29.72827 75.9071 60.11805 32.25966 71.14928 31.1931 75.85583 60.35702 32.2516 79.7361 31.83573 75.9152 60.47206 32.2518 79.7361 31.83573 75.9285 61.3147 32.2518 79.3044 36.09147 75.9285 61.42054 32.24864 78.1556 31.76907 75.86569 60.	32.26981	78.19225	31.61969	76.00959	62.18383
31,94285 7,99904 26,8721 76,02964 61,8797 31,95817 78,10272 30,37195 75,95126 61,66226 32,10475 78,26478 29,99764 75,95096 61,49399 32,1763 78,36211 31,69354 75,7911 61,52024 32,24437 78,20442 31,32526 75,83146 62,17604 32,27145 78,0071 30,95941 75,82568 61,03366 32,24371 78,0048 29,72827 75,99071 60,13905 32,25966 78,14928 31,1931 75,89152 60,47296 32,25965 77,97361 31,83573 75,9152 60,47296 32,24144 78,09555 33,89223 75,8935 61,31147 32,25136 77,93044 36,09147 75,8926 61,42054 32,24946 78,14945 31,76907 75,8939 60,8736 32,25282 78,24945 31,88348 75,8935 60,6355 32,2943 78,0058 30,883 75,64758 6	32.24176	78.199	32.12807	75.97332	62.16835
31.95817 78.10272 30.37195 55.95126 61.6226 32.10475 78.26478 29.99764 75.95086 61.43939 32.1763 78.36211 31.69354 75.77911 61.52024 32.24437 78.20442 31.32826 75.83146 62.17604 32.27145 78.0071 30.95941 75.82588 61.03366 32.38041 78.10513 33.38965 75.89172 60.73991 32.42271 78.07468 29.72227 75.80071 60.11805 32.52966 78.14928 31.1931 75.80833 60.3702 32.55136 77.9761 31.83573 75.9152 60.47296 32.54194 78.0555 33.69223 75.80357 61.31147 32.249245 78.34948 31.76007 75.8979 60.8736 32.25282 78.26844 31.89349 75.8979 60.69355 32.25943 78.05058 30.583 75.8979 60.69355 32.29058 78.1102 29.4937 75.8911 <t< td=""><td>32.11469</td><td>78.15431</td><td>30.08725</td><td>75.8787</td><td>61.79934</td></t<>	32.11469	78.15431	30.08725	75.8787	61.79934
32 10475 78.26478 29.99764 75.95086 61.49309 32 1763 78.36211 31.69354 75.77911 61.52024 32 22437 78.20442 31.32526 75.83146 62.17604 32 227145 78.0071 30.95941 75.82568 61.03366 32 35041 78.10513 33.89065 75.89172 60.73991 32 42971 78.07468 29.72827 75.90071 60.1805 32 52966 78.14928 31.931 75.88883 60.35702 32 554194 78.00555 33.6923 75.9012 60.47296 32 54194 78.00555 34.9679 75.9979 60.8736 32 48684 78.1556 34.36769 75.8979 60.8736 32 49245 78.49485 31.76907 75.6659 60.6355 32 259743 78.60568 30.583 75.69778 61.13639 32 25943 78.1092 29.4937 75.64758 60.92588 32 29088 78.1129 28.5027 75.7862 6	31.94285	77.99904	29.68721	76.02964	61.8797
32.1763 78.36211 31.69354 75.77911 61.52024 32.24437 78.20442 31.32526 75.83146 62.17604 32.27145 78.0071 30.95941 75.82568 61.03366 32.35041 78.10513 33.38965 75.89172 60.73991 32.42971 78.07468 29.72827 75.99071 60.11905 32.52966 78.14928 31.1931 75.88583 60.35702 32.55136 79.97361 31.83573 75.9152 60.47296 32.55136 77.93044 36.09147 75.9856 61.31147 32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.78907 75.66569 60.83758 32.59743 78.0568 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11082 32.67408 75.78262 62.00879 32.90588 78.11082 32.6408 75.74019	31.95817	78.10272	30.37195	75.95126	61.66226
32 24437 78 20442 31.32526 75.83146 62.17604 32 27145 78.0071 30.95941 75.82568 61.03366 32 35041 78.10513 33.39965 75.89172 60.73991 32 42971 78.07468 29.72827 75.98071 60.11805 32 52966 76.14928 31.1931 75.88583 60.35702 32 55915 77.97361 31.83573 75.9152 60.47296 32 55136 77.9304 36.09147 75.92656 61.31147 32 48644 78.1556 43.36769 75.8979 60.83758 32 48245 78.8984 31.89348 75.8555 60.66355 32 52282 78.26384 31.89348 75.86778 61.13639 32 7053 77.89243 29.49337 75.64758 60.92598 32 83405 78.11082 32.67408 75.78262 62.00879 32 90588 78.11082 32.67408 75.78262 62.00879 32 80053 78.07468 29.41033 75.66123	32.10475	78.26478	29.99764	75.95086	61.49309
3.2.27145 78.0071 30.95941 75.82568 61.03366 32.35041 78.10513 33.38965 75.89172 60.73991 32.42971 78.07468 29.72827 75.98071 60.11805 32.52966 78.14928 31.1931 75.88583 60.35702 32.54194 78.00555 33.69223 75.80357 61.31147 32.54194 78.00555 33.69233 75.8976 61.42054 32.48684 77.93044 36.09147 75.92856 61.42054 32.49245 78.1556 34.36769 75.8979 60.8736 32.59743 78.05058 31.76907 75.68569 60.8355 32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.93491 77.92604 34.45097 75.73622 61.69653 32.9306 78.07468 29.41033 75.66123	32.1763	78.36211	31.69354	75.77911	61.52024
32.35041 78.10513 33.38965 75.89172 60.73991 32.42971 78.07468 29.72827 75.98071 60.11805 32.52966 78.14928 31.1931 75.89583 60.35702 32.59615 77.97361 31.83573 75.9152 60.47296 32.54194 78.00555 33.89223 75.80357 61.31147 32.55136 77.93044 36.09147 75.92856 61.42054 32.49245 78.1556 34.36769 75.8979 60.8736 32.52282 78.26384 31.88348 75.85355 60.6355 32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.89405 78.11219 28.58027 75.59411 61.26123 32.93981 77.92604 34.45097 75.73622 61.69653 32.93086 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085	32.24437	78.20442	31.32526	75.83146	62.17604
32.42971 78.07468 29.72827 75.98071 60.11805 32.52966 78.14928 31.1931 75.88583 60.35702 32.59615 77.97361 31.83573 75.9152 60.47296 32.54194 78.00555 33.69223 75.80357 61.31147 32.55136 77.93044 36.09147 75.92856 61.42054 32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.76907 75.66569 60.83758 32.52282 78.26384 31.88348 75.85355 60.6355 32.59743 78.05058 30.583 75.64778 61.3639 32.7053 77.89243 29.49337 75.64758 60.92598 32.93491 77.92604 34.45097 75.78262 62.00879 32.93491 77.92604 34.45097 75.74019 62.01629 32.8042 78.19719 29.2916 75.54085 63.06491 32.7364 78.1983 30.5694 75.47392 <	32.27145	78.0071	30.95941	75.82568	61.03366
32.52966 78.14928 31.1931 75.88583 60.35702 32.59615 77.97361 31.83573 75.9152 60.47296 32.54194 78.00555 33.69223 75.80357 61.31147 32.55136 77.93044 36.09147 75.92856 61.42054 32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.76907 75.66569 60.6355 32.52282 78.26384 31.89348 75.85355 60.66355 32.59743 78.05058 30.583 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93996 78.03259 31.00666 75.74019 62.01629 32.8042 78.19719 29.29216 75.54025 63.06491 32.73641 78.1983 30.5694 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.35041	78.10513	33.38965	75.89172	60.73991
32.59615 77.97361 31.83573 75.9152 60.47296 32.54194 78.00555 33.69223 75.80357 61.31147 32.55136 77.93044 36.09147 75.92856 61.42054 32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.76907 75.66569 60.83758 32.59743 78.0508 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.73641 78.1983 30.5694 75.47392 61.37846 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056<	32.42971	78.07468	29.72827	75.98071	60.11805
32.54194 78.00555 33.69223 75.80357 61.31147 32.55136 77.93044 36.09147 75.92856 61.42054 32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.76907 75.66569 60.83758 32.52282 78.26384 31.88348 75.85355 60.66355 32.59743 78.05058 30.583 75.64758 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.79262 62.00879 32.90588 78.11082 32.67408 75.78262 62.00879 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54055 63.06491 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.52966	78.14928	31.1931	75.88583	60.35702
32.55136 77.93044 36.09147 75.92856 61.42054 32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.76907 75.66569 60.6355 32.52282 78.26384 31.88348 75.85355 60.66355 32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.59615	77.97361	31.83573	75.9152	60.47296
32.48684 78.1556 34.36769 75.8979 60.8736 32.49245 78.49485 31.76907 75.66569 60.83758 32.52282 78.26384 31.88348 75.85355 60.66355 32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.93688 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.7364 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.54194	78.00555	33.69223	75.80357	61.31147
32.49245 78.49485 31.76907 75.66569 60.83758 32.52282 78.26384 31.88348 75.85355 60.66355 32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.79411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.72007 75.47392 61.37846 32.7306 78.15722 30.72007 75.74056 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.55136	77.93044	36.09147	75.92856	61.42054
32.52282 78.26384 31.88348 75.85355 60.66355 32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.72007 75.47392 61.37846 32.7306 78.15722 30.72007 75.74056 61.35453	32.48684	78.1556	34.36769	75.8979	60.8736
32.59743 78.05058 30.583 75.68778 61.13639 32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.81053 78.07468 29.41033 75.64123 62.01629 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.4723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.49245	78.49485	31.76907	75.66569	60.83758
32.7053 77.89243 29.49337 75.64758 60.92598 32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.52282	78.26384	31.88348	75.85355	60.66355
32.83405 78.11219 28.58027 75.59411 61.26123 32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.59743	78.05058	30.583	75.68778	61.13639
32.90588 78.11082 32.67408 75.78262 62.00879 32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.7053	77.89243	29.49337	75.64758	60.92598
32.93491 77.92604 34.45097 75.73622 61.69653 32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.83405	78.11219	28.58027	75.59411	61.26123
32.93086 78.03259 31.00666 75.74019 62.01629 32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.90588	78.11082	32.67408	75.78262	62.00879
32.81053 78.07468 29.41033 75.66123 62.4899 32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.93491	77.92604	34.45097	75.73622	61.69653
32.8042 78.19719 29.29216 75.54085 63.06491 32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.93086	78.03259	31.00666	75.74019	62.01629
32.73641 78.1983 30.5694 75.64723 62.34156 32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.81053	78.07468	29.41033	75.66123	62.4899
32.7306 78.15722 30.72007 75.47392 61.37846 32.64169 78.11609 30.15533 75.74056 61.35453	32.8042	78.19719	29.29216	75.54085	63.06491
32.64169 78.11609 30.15533 75.74056 61.35453	32.73641	78.1983	30.5694	75.64723	62.34156
	32.7306	78.15722	30.72007	75.47392	61.37846
32.63112 78.2881 28.56019 74.33997 60.6754	32.64169	78.11609	30.15533	75.74056	61.35453
	32.63112	78.2881	28.56019	74.33997	60.6754

32.57962	78.53934	28.74569	75.57714	59.77678
32.6863	78.46059	28.13907	77.63741	59.39601
32.80583	78.38833	28.51431	80.28611	59.45458
32.90373	78.40146	30.13823	81.07578	59.3615
32.9067	78.53365	31.52189	81.32465	59.21203
32.95157	78.61869	32.06326	80.15913	59.41122
33.05206	78.65588	33.7668	82.40826	58.77387
33.1577	78.55126	35.52477	81.45638	58.00494
33.0792	78.41479	36.18539	79.10319	58.33875
33.0628	78.49392	37.84253	79.01991	57.66805
33.05136	78.61106	38.24368	80.98164	57.34889
32.93827	78.58891	34.63765	81.27795	57.58857
32.84147	78.44535	34.25184	81.35755	57.86286
32.71353	78.32726	28.17646	79.88528	57.69532
32.76181	78.38892	27.01596	81.53223	57.40554
32.92054	78.51122	26.57733	81.54864	57.732
33.09937	78.69056	24.76824	80.53263	57.41301
33.13493	78.59286	27.4111	82.14195	57.0246
33.16457	78.53188	27.13922	80.27877	56.67243
33.21978	78.59166	27.54736	82.59267	56.59151
33.23723	78.73644	25.67457	82.7149	56.75134
33.28236	78.76659	24.79162	82.99586	56.15351
33.27354	78.64391	24.05126	81.46777	56.07602
33.32042	78.50205	22.4447	81.46771	55.55466
33.45312	78.52764	20.73955	81.64381	55.95591
33.60679	78.66727	19.79536	82.12398	55.33223
33.79289	78.64294	18.95607	82.5174	55.30575
33.83416	78.56324	18.69041	81.31218	55.83503
33.87961	78.43662	18.06603	82.13482	55.3565
33.87981	78.42304	16.95048	82.07009	55.73983
33.9248	78.58395	17.6092	80.57227	55.92213
33.97646	78.52959	18.85584	81.40002	56.27867
33.97837	78.53481	18.76593	80.76492	56.68041
34.09871	78.46863	18.99985	80.98699	57.51941
33.19675	78.54839	20.93484	81.28819	57.22927
28.02882	78.69891	21.7012	78.45576	57.84494
26.71881	78.64477	22.43796	81.86501	58.03946
29.27887	78.49986	23.30252	81.26701	57.93372
27.36868	78.38228	24.55473	79.91592	58.11812
32.97354	78.40859	26.9625	81.07868	58.61546
32.8697	78.56362	57.24598	80.06958	58.4774

0.02776 78.4526					
47.76986 76.99082 95.526975 80.47041 56.47681 47.69866 76.46161 56.47406 80.70767 58.60052 47.48399 76.67809 37.78044 80.46838 56.73192 47.28972 76.78662 31.15194 81.46274 56.6983 56.73192 47.28972 76.78662 22.95232 80.79547 58.87346 56.24935 56.24935 47.11864 76.52524 20.72598 70.68649 58.24035 56.24035 47.11864 77.52524 20.72598 70.68649 58.24035 56.24035 56.6888 76.54256 18.92349 81.089 58.4728 56.6888 76.54256 18.92349 81.089 58.4728 56.6888 76.54256 18.92349 81.089 58.4728 56.6888 76.5823 77.55550 18.824 81.87218 59.66132 60.46628 76.5823 77.55550 18.824 81.87218 59.66132 60.4662 60.52379 76.5000 18.0621 03.06919 00.53021 66.58333 78.55550 18.824 81.87238 81.87218 58.87143 64.62379 76.5000 18.0621 03.06919 00.53021 66.52379 76.5000 18.0621 03.06919 00.53021 66.23924 64.61275 76.6465 18.07239 83.32522 66.23924 64.61275 76.6465 20.52205 00.56521 00.06249 64.52379 77.55688 10.97578 81.87233 58.87143 64.61375 76.6465 20.55205 00.56521 00.06249 64.52379 77.55688 10.97578 81.87233 58.87143 64.57349 64.57457 77.56485 10.97578 81.87233 58.87143 64.57349 64.57457 77.56485 10.97578 81.87233 58.87143 64.57349 64.57457 77.56485 10.97577 02.56407 01.57578 64.57577 02.56407 01.57578 64.57577 02.56407 01.57578 64.57577 02.56407 01.57578 64.57577 02.56407 01.57578 64.57577 02.56407 01.57577 02.56407 01.57577 02.56407 01.57577 02.56507 02.57578 02.57579 02.57509 02.57579 02.57509 02.57579 02.5750	40.02761	78.46208	61.10412	81.71261	58.1761
47.56448 77.40161 55.47408 0.070767 58.00032 47.44399 78.67809 37.70194 88.6553 58.73192 47.71169 78.68652 2.2.5622 80.75647 58.47246 47.11169 78.68652 2.2.5622 80.75647 58.47246 47.11169 78.68652 1.2.5656 18.9249 81.0898 59.4725 46.78639 78.5656 18.9249 81.089 59.4725 46.78639 78.60112 18.3704 03.0495 59.2802 46.56399 78.5823 17.53378 81.87818 59.66192 46.53379 78.5600 16.924 01.4005 60.44602 46.53317 78.5668 16.9621 03.06819 60.51331 46.53317 78.5668 16.9621 03.06819 60.51331 46.53317 78.5668 16.9621 03.06819 60.51331 46.53317 78.5668 16.9621 03.06819 60.51331 46.43349 78.68984 16.7329 83.83500 60.27944 46.10179 78.61406 2.08205 30.0521 60.06243 46.57340 78.5651 02.24698 30.26773 61.06649 46.57407 78.5651 02.24698 30.26773 61.06649 46.57407 78.4052 2.5.55379 02.25909 62.35866 44.57407 78.4072 2.5.55379 02.25909 62.35866 44.57407 78.4062 2.5.55379 02.27909 62.35866 44.2664 78.37624 2.2.55379 02.27909 62.35866 44.2664 78.36649 31.6622 2.5.55379 02.27909 62.35866 44.2664 78.36649 31.6622 2.5.55379 02.27909 62.35866 44.2664 78.36649 31.6622 2.5.55379 02.27909 62.35866 44.2664 78.47672 2.5.5544 31.26697 62.47956 43.58601 78.44347 34.8538 33.16655 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44349 31.6624 31.1624 31.1626 66.3594 43.2760 78.5622 2.7.5674 31.1668 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44347 34.8538 33.16659 64.05811 43.58601 78.44349 33.06847 34.14577 68.06849 77.05869 77.06869 77.06869 77.0686	45.10398	78.41947	47.6245	81.9259	58.23209
47.44590	47.70966	78.39263	55.50975	80.47041	58.41763
47.21972 78.78962 83.19104 85.49274 85.69883 47.12109 73.68252 22.58623 80.79547 85.87345 47.12109 73.68252 22.58623 80.79547 85.87345 47.12109 73.68252 22.58623 80.79547 85.87345 47.12109 73.68252 22.58623 80.79547 85.87345 47.12109 73.64256 18.82249 81.699 82.4035 48.69243 776.54256 18.82249 81.699 84.725 86.2822 48.7825 89.78533 73.6523 17.63378 81.8718 89.6485 90.6822 48.65899 73.65823 17.63378 81.8718 89.6485 90.64852 48.65899 73.65823 17.63378 81.8241 81.005 60.44652 48.65833 77.55609 18.8241 81.005 60.44652 48.65833 77.55609 18.8241 81.621 81.66819 80.51821 48.62379 77.55609 18.8224 81.8223 89.89743 48.42388 78.6984 18.7579 83.35502 60.22244 48.42388 78.6984 18.7579 83.35502 60.22244 48.42388 78.6984 18.7579 83.35502 60.22244 48.6743 78.42557 24.34619 81.6974 61.10256 48.57341 78.42557 24.34619 81.6974 61.10256 48.57341 78.42557 24.34619 81.6974 61.10256 48.57341 78.42557 24.34619 81.6974 61.10256 48.57341 78.42557 24.34619 81.5715 62.0337 48.6944 78.36716 77.26951 22.2468 90.26473 61.10256 44.6946 78.26716 77.26951 22.2468 90.26473 61.90474 44.6944 78.36716 77.34672 25.51579 82.78360 62.25666 44.26946 78.47772 25.51579 82.78360 62.25666 44.26946 78.47772 25.51579 82.78360 62.25676 63.33324 44.26746 79.34662 27.02566 83.23257 63.33324 44.26716 79.34642 79.36662 27.02566 83.23257 63.33324 44.26716 79.34642 79.36662 27.02566 83.23257 63.33324 44.26716 79.34662 27.02566 83.23257 63.33324 44.26716 79.34662 27.02566 83.23257 63.33324 44.26716 79.34662 27.02566 83.23257 63.33324 44.26716 79.34662 27.02566 83.23257 63.33324 44.26716 79.34662 27.02566 83.23257 63.33324 83.60631 79.4447 24.4674 84.86716 82.7729 65.74696 83.26757 83.66751 82.6	47.58446	78.46161	55.47406	80.70767	58.60352
47.12169 78.68252 22.68823 80.79547 85.87349 47.11064 70.52524 20.72598 78.6949 59.24035 46.96243 78.5426 38.62349 81.699 59.4725 46.96243 78.5426 38.62349 81.699 59.4725 46.5869 78.63123 18.67704 83.0455 95.2882 46.59333 78.6513 18.624 81.34655 00.44662 46.59333 78.55033 16.624 81.34655 00.44662 46.53817 78.59598 16.9621 83.69819 60.51831 46.42389 78.69489 10.99678 81.8253 59.88749 46.42389 78.69489 10.99678 81.8253 59.88743 46.41175 78.61485 20.58205 80.58621 00.5621 46.11175 78.61485 20.58205 80.58621 00.5621 46.11175 78.61485 20.58205 80.58621 00.56243 46.11175 78.61485 20.58205 80.58621 00.56243 46.11175 78.61485 20.58205 80.58621 00.69643 46.78279 78.25641 30.7377 82.68337 00.58583 46.42380 78.62557 24.34619 81.8974 61.8256 46.37861 78.25241 30.7377 82.68337 00.58583 44.54464 78.35716 27.22903 81.51715 62.08537 44.5447467 78.4672 25.51579 82.79308 82.59666 44.7447 78.6443 31.68224 81.26897 62.48506 44.2666 78.47772 25.51579 82.79308 82.5866 44.2666 78.47772 25.51579 82.79308 82.5867 62.58586 44.26716 78.36443 31.68224 83.10372 63.6801 42.6716 78.36443 31.68224 83.10372 63.6801 42.6716 78.36443 31.68224 83.10372 63.6801 42.6716 78.36469 27.7628 81.26897 65.48506 42.32701 78.34206 20.38691 82.77293 65.51388 42.32701 78.34206 20.38691 82.77293 65.51388 42.32701 78.34206 20.38691 82.77293 65.51388 42.32701 78.34206 20.38691 82.77293 66.755114 43.6861 78.32337 20.50007 80.00101 67.10336 41.11799 78.45051 20.50007 80.00101 67.10336 41.11799 78.45051 20.50007 80.00101 67.10336 41.11799 78.45051 20.50007 80.00101 67.10336 41.11799 78.45051 20.50007 80.00101 67.10336 41.11799 78.45051 20.50007 80.00101 67.10336 40.5117 78.65075 78.65077 84.47078 83.31233 77.06442 32.55887 78.4647 36.0725 20.50007 80.00101 77.50068 33.76919 78.4645 30.5750 20.50007 80.00101 77.50068 33.76979 78.46077 34.47078 83.31233 77.06442 32.55887 78.4647 36.0725 20.50007 80.201882 77.50661 33.66991 78.6245 37.5268 32.50007 80.201882 77.50661 33.66991 78.6245 37.52691 30.57655 52.60365 77.52618	47.44399	78.67809	37.79094	80.45638	58.73192
47.11864 78.5254 20.72588 78.6849 59.24055 46.58243 78.6913 18.92349 81.089 59.4725 46.78389 78.6913 18.37704 83.0485 59.2882 46.6889 78.6933 17.51378 81.47318 59.68592 46.58333 78.59503 18.824 81.34065 00.44682 46.52379 78.59508 16.9621 83.0619 60.51831 46.52379 78.59688 18.98578 81.82253 59.89743 46.42388 78.69644 18.75399 83.83202 60.2224 46.10175 78.61495 20.58705 80.5874 81.82253 59.89743 45.71343 78.42557 24.34619 81.6974 81.19256 45.77341 78.59581 22.4688 60.24274 81.19256 45.77341 78.59581 22.4688 60.24273 81.69632 44.50665 78.63351 22.24688 60.24273 81.50742 44.54707 78.49722 25.51579 82.73098 62.35866 44.57407 78.49722 25.51579 82.73098 62.35866 44.57607 78.3643 31.6824 81.26997 62.49506 43.59932 78.36652 27.02566 83.23267 63.33324 44.54707 78.3447 24.83288 83.10525 64.82511 43.69932 78.36652 27.02566 83.23267 63.33324 44.56932 78.3643 31.6824 83.10972 63.69811 43.69646 78.347772 25.51544 81.26997 62.49506 43.59932 78.36562 27.02566 83.23267 63.33324 44.5666 78.347772 25.51544 81.26997 62.49506 43.59932 78.36562 27.02566 83.23267 63.33324 44.56932 78.36562 27.02566 83.23267 63.33324 44.60646 78.347772 25.51544 81.20997 62.49506 43.59932 78.36562 27.02566 83.23267 63.33324 44.5066 78.347772 25.51544 81.20997 62.49506 43.69932 78.36562 27.02566 83.23267 63.33324 44.6064 78.34777 28.7628 81.2689 65.31538 42.32701 78.34206 20.38891 82.77933 65.74888 42.32701 78.34206 20.38891 82.77933 65.74888 42.32701 78.34206 20.38891 82.77933 65.75888 42.32701 78.34206 20.38891 82.77933 65.75888 42.32701 78.34206 20.38891 82.77933 66.73688 42.32701 78.34206 20.38891 82.77933 66.73688 42.32701 78.34206 20.38891 82.77933 66.73688 42.32701 78.34206 20.38891 82.77933 66.77688 42.32701 78.34206 20.38891 82.77933 66.77688 43.59935 78.36931 22.34049 80.0512 70.59979 44.59947 78.69077 78.69077 80.47078 83.51233 77.09442 43.55691 78.6454 78.67079 83.52406 77.59588 43.6991 78.6454 78.67079 83.52406 77.595979 43.59077 78.69077 78.69077 86.47079 83.51233 77.09442 43.55691 78.6454 78.67079 83.52406 77.59596 77.59598	47.25972	78.73662	31.16104	81.49274	58.64983
46.95243 78.54256 18.92349 81.089 95.4725 46.78629 78.68113 18.27704 83.0485 55.2862 46.5089 78.6823 17.61378 81.87218 59.66192 46.5089 78.6823 17.61378 81.87218 59.66192 46.50333 78.55503 18.824 81.94055 60.44692 46.50333 78.55503 18.824 81.94055 60.44692 46.50333 78.55508 18.6921 83.08219 60.51331 46.52379 78.55688 18.6921 83.08219 60.51331 46.52389 78.69084 16.7559 83.55202 60.22224 46.101.75 78.61405 20.58205 80.50521 60.66743 45.73813 78.42857 24.34619 81.6974 61.19286 45.73813 78.42857 24.34619 81.6974 61.19286 45.73811 78.25241 30.17377 82.66637 61.5563 45.20066 78.26351 32.24688 80.26473 61.5653 46.9616 78.39716 27.12903 81.51715 62.0557 46.57407 78.48722 25.51549 82.79398 62.36886 42.20645 78.47772 25.51644 81.26997 62.48006 43.36801 78.44347 38.8328 83.2037 63.3324 43.30801 78.44347 38.8328 83.10535 64.82511 42.20545 78.26757 28.2521 27.90674 83.10985 65.3994 44.20546 78.2671 78.2672 22.51644 81.26897 65.39594 42.20545 78.26757 28.2521 27.90674 83.10985 65.3994 44.20646 78.2671 78.26463 31.08224 83.10722 63.59631 43.08801 78.44347 38.8328 83.10535 64.82511 42.20545 78.2672 27.90674 83.10985 65.3994 44.13799 78.26903 22.24715 82.7293 66.74886 40.0438 78.26903 22.24715 82.7293 66.574886 40.0438 78.45903 22.24715 82.7293 66.574886 40.0438 78.45903 22.24715 82.7293 66.574886 40.0438 78.45903 22.24715 82.7293 66.574886 40.0438 78.45903 22.24715 82.7293 66.574886 40.0438 78.45903 78.45903 82.24715 82.7293 66.574886 40.0438 78.45903 78.45903 82.7793 78.6581 77.05462 40.36909 78.5251 23.0049 81.00209 68.01438 40.37908 78.45903 22.24715 82.70967 80.00101 67.10436 41.11799 78.45903 78.45903 82.24715 82.70967 80.00101 67.10436 41.11799 78.45903 78.45903 82.24715 82.70967 80.00101 67.10436 41.11799 78.45903 78.45903 82.24715 82.70967 80.00101 77.10446 41.11799 78.45903 78.45903 82.24715 82.70967 80.00101 77.10446 42.10226 78.25907 78.4597 34.4707 80.311333 71.06442 43.45904 78.45909 78.52561 78.4597 34.47078 83.31233 71.06442 43.45904 78.45979 33.52406 82.26035 71.55961	47.12169	78.68252	22.95823	80.79547	58.87345
46,78839	47.11864	78.52524	20.72598	79.69849	59.24035
46.6999	46.95243	78.54256	18.92349	81.089	59.4725
46.59333	46.78839	78.68113	18.37704	83.0485	59.2882
46.62379 78.50508 16.9621 83.06819 60.51831 46.62379 78.50508 16.99578 81.82253 50.89743 46.62378 78.60684 16.7539 83.5202 60.22924 46.10175 78.61495 20.58205 80.50521 60.69243 45.71343 78.42557 24.34619 81.6974 61.19256 45.71343 78.42557 24.34619 81.6974 61.19256 45.37861 78.25241 30.17377 82.66837 61.65853 45.29805 78.26351 32.24588 80.26473 61.90474 44.9646 78.39716 27.12903 81.51715 62.03537 44.57407 78.49722 25.51579 82.78308 62.35666 44.20646 78.47772 25.61844 81.26607 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.06224 83.10372 63.69831 42.69545 78.40757 28.77628 81.2689 65.31538 42.269545 78.40757 28.77628 81.2689 65.31538 42.10226 78.32522 27.99674 83.16895 66.3594 41.11799 78.49503 22.34715 82.77293 65.74686 41.11799 78.49503 22.34715 82.77216 67.59114 40.39699 78.52351 23.19049 81.02309 68.01438 39.57895 78.36786 29.76631 82.95926 69.3439 39.57895 78.36786 29.76631 82.95926 69.3439 39.57895 78.36786 29.76631 82.95926 69.3439 39.57895 78.36786 29.76631 82.95926 69.3439 39.57895 78.36786 29.76631 82.95926 69.3439 39.57895 78.36786 29.76631 82.95926 69.3439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36786 29.76631 82.95926 69.8439 39.57895 78.36770 28.94009 80.5212 70.55979 39.57895 78.36770 28.94009 80.5212 70.55979 39.57895 78.36770 28.94009 80.5212 70.55979 39.57895 78.36770 28.94009 80.5212 70.55979 39.57895 78.36770 28.94009 80.5212 70.55979	46.6989	78.63823	17.61378	81.87818	59.66192
46.53817 78.56458 16.96578 81.82253 59.89743 46.42358 78.69684 16.7539 83.35212 60.22924 46.10175 78.61495 20.58205 80.56521 60.69243 45.71343 78.42557 24.34619 81.6974 61.19256 45.71343 78.42557 24.34619 81.6974 61.19256 45.37861 78.25241 30.17377 82.66837 61.65863 45.20905 78.26351 32.24688 80.26473 61.90474 44.9646 78.39716 27.12903 81.51715 62.03537 44.57407 78.48722 25.51579 82.76308 62.35686 44.20646 78.47772 25.61844 81.26607 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.89831 43.05891 78.44347 34.82238 83.10355 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.10226 78.32522 27.90674 83.16956 66.33594 41.11799 78.49503 22.34957 80.03101 67.10436 41.11799 78.49503 22.34959 81.02309 66.01438 39.8663 78.45691 27.64054 81.87075 68.91399 39.8663 78.45691 30.68437 83.14527 68.91399 39.8663 78.45691 30.68437 83.14527 68.91399 39.8663 78.45691 30.68437 83.14527 68.91399 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.8765 78.36766 29.76631 82.95926 69.9139 39.9471 78.83075 28.94609 80.58212 70.55979 34.99471 78.83075 28.94609 80.58212 70.55979 34.99471 78.83075 28.94609 80.58212 70.55979 34.99471 78.83075 28.94609 80.58212 70.5547 33.15667 78.60677 34.99778 80.31233 71.06442 35.5887 78.4947 36.07235 82.96365 71.52818 36.69454 78.83679 33.52406 82.8382 71.95561 35.0243 78.8889 32.52067 81.19566 72.44395 36.83454 78.83679 33.52406 82.0838 73.0842	46.59333	78.55503	16.824	81.34055	60.44662
66.42358 78.69684 16.7539 83.35202 60.22924 46.10175 78.61495 20.58205 80.05021 60.69243 45.71343 78.42557 24.34619 81.6974 61.19256 45.37661 78.25241 30.17377 82.66837 61.65853 45.20905 78.26351 32.24688 80.26473 61.90474 44.9646 78.39716 27.12903 81.51715 62.03537 44.7047 78.48722 25.51579 82.79308 62.35686 42.70466 78.47772 25.61844 81.26697 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.0501 78.44347 34.82328 83.10535 64.62511 42.69545 78.40757 28.77528 81.2689 65.31538 42.10226 78.28522 27.99674 83.16985 66.33594 41.11799 78.49803 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02398	46.62379	78.50508	16.9621	83.06819	60.51831
46.10175 78.61495 20.58205 80.50521 60.69243 45.71343 78.42557 24.34619 81.6974 61.19256 45.37861 78.25241 30.17377 82.66837 61.65853 45.20805 78.26351 32.24688 80.26473 61.90474 44.9646 78.39716 27.12903 81.51715 62.03537 44.9646 78.39716 27.12903 81.51715 62.03537 44.20646 78.47772 25.61844 81.29697 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.69831 43.05801 78.44347 34.82238 83.10535 64.62511 42.89545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 39.57895 78.36786 29.76631 82.95926 69.8435 39.49471 78.63075 28.94609 80.58212 70.51547 33.15507 78.60877 34.97078 83.31233 71.06442 33.65691 78.6245 35.73282 82.83882 71.59561 30.6243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.08842	46.53817	78.56458	16.99578	81.82253	59.89743
45,71343 78,42557 24,34619 81,6974 61,19256 45,37861 78,25241 30,17377 82,66837 61,65853 45,20905 78,26351 32,24688 80,26473 61,90474 44,9646 78,39716 27,12903 81,51715 62,03537 44,57407 78,48722 25,51579 82,79308 62,25686 44,20646 78,47772 25,61844 81,29697 62,49506 43,66932 78,36662 27,02566 83,23267 63,33324 43,26716 78,3443 31,08224 83,10372 63,69831 43,05901 78,44347 34,83238 83,10335 64,82511 42,66945 78,40757 28,77628 81,2689 65,31538 42,32701 78,34266 29,38691 82,77233 65,74686 41,6261 78,32387 23,60907 80,03101 67,10436 41,11799 78,49503 22,34715 82,70216 67,59184 40,39969 78,52351 23,19049 81,02309	46.42358	78.69684	16.7539	83.35202	60.22924
5.37861 78.25241 30.17377 82.66837 61.65853 45.20905 78.26351 32.24688 80.26473 61.90474 44.9646 78.39716 27.12903 81.51715 62.03537 44.57407 78.48722 25.51579 82.79306 62.35686 44.20646 78.47772 25.61844 81.29697 62.49506 43.66932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.69831 43.05901 78.44347 34.83238 83.10335 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.9471 78.63075 28.94609 80.5812 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.8245 35.7282 82.83882 71.95561 35.0243 78.78899 32.59937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	46.10175	78.61495	20.58205	80.50521	60.69243
A5.20905 78.26351 32.24688 80.26473 61.90474 A4.9646 78.39716 27.12903 81.51715 62.03537 A4.57407 78.48722 25.51579 82.79308 62.35686 A4.20046 78.47772 25.61844 81.29697 62.49506 A3.69932 78.36662 27.02566 83.23267 63.33324 A3.26716 78.36443 31.08224 83.10372 63.69831 A3.05801 78.44347 34.83238 83.10535 64.62511 A2.69545 78.40757 28.77628 81.2689 65.31538 A2.32701 78.34206 29.38691 82.77293 65.74686 A2.10226 78.28522 27.99674 83.16985 66.33594 A1.11799 78.49503 22.34715 82.70216 67.59184 A0.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.57075 68.91389 39.57895 78.36786 29.76631 82.96926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.6391 30.17853 81.06912 70.5979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.6245 35.73282 82.83882 71.95561 35.0243 78.76869 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.0138 73.06842	45.71343	78.42557	24.34619	81.6974	61.19256
44.9646 78.39716 27.12903 81.51715 62.03537 44.57407 78.48722 25.51579 82.79308 62.35686 44.20646 78.47772 25.61844 81.29697 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.69831 43.05801 78.44347 34.83238 83.10535 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.1799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.99926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81	45.37861	78.25241	30.17377	82.66837	61.65853
44.57407 78.48722 25.51579 82.79308 62.35686 44.20646 78.47772 25.61844 81.29697 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.69831 43.05801 78.44347 34.83238 83.10535 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.60877 34.97078 83.31233 71.06442 33.15607 78.60877 34.97078	45.20905	78.26351	32.24688	80.26473	61.90474
44.20646 78.47772 25.61844 81.29697 62.49506 43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.69631 43.05801 78.44347 34.83238 83.10535 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.6261 78.32387 23.60907 80.03101 67.10436 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80	44.9646	78.39716	27.12903	81.51715	62.03537
43.69932 78.36662 27.02566 83.23267 63.33324 43.26716 78.36443 31.08224 83.10372 63.69831 43.05801 78.44347 34.83238 83.10535 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60687 34.97078 83.31233 71.06442 32.5887 78.4947 36.07235 82.	44.57407	78.48722	25.51579	82.79308	62.35686
43.26716 78.36443 31.08224 83.10372 63.69831 43.05801 78.44347 34.83238 83.10535 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8663 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.40051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82	44.20646	78.47772	25.61844	81.29697	62.49506
43.05801 78.44347 34.83238 83.10535 64.62511 42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.6261 78.32387 23.60907 80.03101 67.10436 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8663 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.1	43.69932	78.36662	27.02566	83.23267	63.33324
42.69545 78.40757 28.77628 81.2689 65.31538 42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.6261 78.32387 23.60907 80.03101 67.10436 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57695 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.7889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08	43.26716	78.36443	31.08224	83.10372	63.69831
42.32701 78.34206 29.38691 82.77293 65.74686 42.10226 78.28522 27.99674 83.16985 66.33594 41.6261 78.32387 23.60907 80.03101 67.10436 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.	43.05801	78.44347	34.83238	83.10535	64.62511
42.10226 78.28522 27.99674 83.16985 66.33594 41.6261 78.32387 23.60907 80.03101 67.10436 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	42.69545	78.40757	28.77628	81.2689	65.31538
41.6261 78.32387 23.60907 80.03101 67.10436 41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8663 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	42.32701	78.34206	29.38691	82.77293	65.74686
41.11799 78.49503 22.34715 82.70216 67.59184 40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	42.10226	78.28522	27.99674	83.16985	66.33594
40.39969 78.52351 23.19049 81.02309 68.01438 39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	41.6261	78.32387	23.60907	80.03101	67.10436
39.8863 78.45691 27.64054 81.87075 68.91389 39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	41.11799	78.49503	22.34715	82.70216	67.59184
39.57895 78.36786 29.76631 82.95926 69.8435 38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	40.39969	78.52351	23.19049	81.02309	68.01438
38.87928 78.46051 30.68437 83.14527 69.87668 37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	39.8863	78.45691	27.64054	81.87075	68.91389
37.68755 78.63091 30.17853 81.06912 70.59979 34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	39.57895	78.36786	29.76631	82.95926	69.8435
34.99471 78.63075 28.94609 80.58212 70.51547 33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	38.87928	78.46051	30.68437	83.14527	69.87668
33.15607 78.60877 34.97078 83.31233 71.06442 32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	37.68755	78.63091	30.17853	81.06912	70.59979
32.55887 78.4947 36.07235 82.96365 71.52818 33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	34.99471	78.63075	28.94609	80.58212	70.51547
33.65991 78.6245 35.73282 82.83882 71.95561 35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	33.15607	78.60877	34.97078	83.31233	71.06442
35.0243 78.78889 32.50937 81.19566 72.44395 36.83454 78.83679 33.52406 82.08138 73.06842	32.55887	78.4947	36.07235	82.96365	71.52818
36.83454 78.83679 33.52406 82.08138 73.06842	33.65991	78.6245	35.73282	82.83882	71.95561
	35.0243	78.78889	32.50937	81.19566	72.44395
38.54427 78.72632 32.84524 82.66727 74.63975	36.83454	78.83679	33.52406	82.08138	73.06842
	38.54427	78.72632	32.84524	82.66727	74.63975

38.64687	78.58923	27.12408	80.6926	74.76155
38.93083	78.60718	29.06556	81.15141	75.11339
41.95027	78.73454	27.03685	83.3756	75.32791
42.51961	78.76911	25.89408	82.45209	75.61756
42.82058	78.50589	28.50118	81.01213	75.12265
42.98638	78.30922	34.01706	82.02821	75.43879
43.28146	78.31307	30.84781	82.64554	75.78056
43.6462	78.3804	30.35048	84.14512	75.4336
43.95722	78.3559	32.55693	82.87354	75.98047
44.10786	78.15913	32.11484	82.07567	76.41786
44.10365	78.08405	33.65102	80.24197	76.86536
44.09714	78.14391	31.03092	82.89051	77.55612
43.86998	78.31292	28.47085	81.87251	78.8047
43.70614	78.39563	25.05364	80.3652	79.60557
43.58878	78.2433	26.73274	81.4054	80.54318
43.4973	78.18334	29.36751	80.34871	82.09525
43.42374	78.22961	29.09837	80.6931	82.99397
43.56619	78.44045	33.12672	81.12276	83.83356
43.56398	78.42704	34.5912	81.24783	85.59553
43.61348	78.36924	27.82196	79.51898	86.23692
43.67233	78.38029	28.47833	82.45576	87.23966
43.75085	78.4716	28.11817	81.28442	87.56101
43.76688	78.54749	27.30945	80.94734	88.28336
43.792	78.4737	33.36139	81.7415	88.71535
43.81921	78.34133	31.63919	76.45563	89.75965
43.89098	78.23366	34.60786	68.15614	90.58617
43.98184	78.30178	26.39243	56.80912	90.72006
44.07505	78.48584	26.24051	50.54827	90.40402
44.23167	78.45241	26.92233	47.13988	90.57914
44.3838	78.30545	26.59362	49.62349	90.41423
44.5063	78.26623	28.55606	56.1092	91.14282
44.62618	78.39592	30.11525	65.24243	92.0814
44.60201	78.58225	33.6766	71.56178	92.56174
44.442	78.63898	33.98554	71.5537	92.27004
44.29607	78.49344	32.35635	71.56033	92.71992
44.21552	78.35735	34.518	71.56284	93.74671
43.91477	78.3586	34.86731	71.56157	94.27087
40.00321	78.46893	32.8512	71.4728	95.02236
31.81156	78.44199	30.02979	71.56988	95.25915
25.8732	78.35077	28.64832	71.55602	96.17671
22.02207	78.35256	29.50496	71.57383	96.98534
19.26056	78.40635	31.42942	71.53079	97.90682

18.02435	78.59234	32.35577	71.59667	98.42737
18.46469	78.60047	34.60179	71.59451	98.02219
16.43809	78.53535	35.70697	71.59808	97.98795
15.28549	78.43672	36.15747	71.62669	98.10843
15.60751	78.45487	35.59147	71.63047	98.90553
15.48749	78.64029	36.73481	71.58865	98.5175
15.24298	78.67478	38.05702	71.54421	98.19717
15.54929	78.5703	38.01505	71.55292	97.94367
15.63556	78.51176	36.81028	71.61045	97.69254
16.93003	78.66428	33.95501	71.6135	97.14695
20.11533	78.79491	30.87034	71.53191	96.37047
27.38947	78.74038	33.30959	71.57177	94.9446
42.55399	78.72373	34.33661	71.61997	94.70754
52.93893	78.60116	35.5588	71.58454	95.58334
52.95299	78.57579	37.49406	71.63033	96.12968
52.93955	78.728	38.84643	71.59394	95.50817
52.94624	78.75779	38.08481	71.61703	94.87956
52.9558	78.81213	38.48192	71.62013	95.47892
52.96989	78.78933	40.38982	71.64245	94.62189
52.98266	78.83292	40.48685	71.64551	93.72396
52.98901	78.88919	36.23135	71.6491	93.35141
52.99904	78.83013	36.26705	71.64662	93.18731
53.00396	78.66462	36.27551	71.69841	92.79768
52.97312	78.49258	36.96511	71.6736	92.99712
53.00528	78.59309	36.70491	71.6742	93.09188
53.05299	78.76315	36.67922	71.62758	92.84032
53.08595	78.77218	37.91674	71.6553	91.99008
53.10569	78.63183	39.12885	71.60502	92.82492
53.11873	78.49545	35.83159	71.57069	92.66303
53.11622	78.51465	35.64143	71.63725	92.11729
53.11693	78.6426	35.43599	71.55219	92.48013
53.09266	78.68823	37.20842	71.56784	92.68993
53.09273	78.60648	39.707	71.52462	92.80566
53.11144	78.54989	40.36972	71.56809	92.25719
53.12492	78.60137	39.57468	71.59274	92.60694
53.14125	78.73244	37.65987	71.61644	92.15069
52.94426	78.70619	38.94581	71.56572	91.18188
52.26328	78.59056	40.06652	71.51733	90.90163
51.52874	78.52846	40.30486	71.57539	90.25485
50.96685	78.59264	42.85994	71.55312	88.91937
50.38583	78.7757	42.6783	71.55368	88.47917
49.85191	78.79872	43.51489	71.53254	88.51506

49.40686	78.54279	44.50343	71.5272	87.26296
48.97932	78.35553	42.80919	71.61302	85.685
48.45708	78.25446	44.96063	71.61152	84.36877
47.86446	78.36434	46.51823	71.63519	83.23194
47.43541	78.42562	45.35247	71.6418	82.21005
47.1065	78.31783	45.51167	71.64313	82.15845
46.83478	78.29112	44.89963	71.60667	81.1682
46.5132	78.2909	45.89646	71.6151	80.13172
46.03481	78.39895	48.25777	71.60671	79.53881
45.5615	78.49345	46.55856	71.6096	78.71452
45.1687	78.32108	46.66487	71.59156	78.20851
44.64364	78.18878	45.58506	71.55648	78.8624
44.12541	78.28613	44.84831	71.58369	78.87385
43.69613	78.34997	44.52232	71.59129	78.11804
43.03255	78.3243	44.29154	71.58604	77.68216
42.56189	78.26072	45.18401	71.57302	77.90449
42.27986	78.23785	47.30003	71.58276	77.86076
41.80077	78.2888	42.58584	71.60753	77.57997
41.23724	78.43852	43.20559	71.57053	77.76545
40.89035	78.46751	49.40918	71.58868	76.32693

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src01	src02	src04	src05	src06
16.4346	4.854876	23.67565	4.853036	30.07895
16.336	4.852765	23.85904	4.184067	30.46464
16.2876	4.860908	23.94492	4.696161	30.42508
16.25301	4.952977	24.10775	6.410902	29.75141
16.25793	4.742767	24.11188	4.160068	29.71385
16.18544	4.821981	24.69387	4.721159	29.47401
16.16217	4.781013	25.18017	4.548656	29.93687
16.09365	4.813073	25.05393	5.139695	29.54725
16.02452	4.762067	24.89463	5.328558	30.08106
16.01555	4.83356	24.79251	4.072394	29.5964
16.02729	4.565938	25.04163	5.352254	28.70301
16.03693	4.840607	25.14869	4.413699	29.05461
16.01169	4.604475	25.01037	4.508003	29.38734
15.99107	4.605731	24.37147	5.615321	28.98725
16.03212	4.369024	23.50415	3.984185	29.09729
16.13198	4.681246	23.40761	4.163081	28.5931
16.16231	4.552174	23.05094	4.64704	28.73829
16.14231	4.608134	24.14053	5.293671	28.65966

16.07628	4.568195	24.53619	6.766617	28.6924
16.04752	4.287101	24.11617	4.479671	28.61699
16.05922	4.487365	23.76856	4.64454	28.78117
16.16985	4.254987	22.85081	6.352566	28.56161
16.18335	4.647492	23.3715	4.968929	28.46624
16.22783	4.841856	23.88872	4.648597	28.48849
16.24669	5.328704	23.78434	5.720457	28.27702
16.27143	5.300278	24.20948	4.637146	28.63454
16.3447	4.683675	24.46646	4.330137	28.36114
16.59715	5.573736	24.14022	4.849813	27.69356
16.66385	4.530762	23.97219	4.198858	27.63517
17.05659	4.57051	24.01006	4.944315	27.38733
16.98272	4.415952	24.64534	4.16673	27.86837
16.96191	4.835955	25.30059	3.969127	28.79441
16.87775	4.604583	24.92475	6.192251	28.85178
16.9628	4.152794	25.12265	5.368617	28.49077
17.30263	4.69043	25.18206	4.53744	27.81821
17.4104	4.369136	24.77978	4.816576	28.06695
17.35473	4.713391	24.79342	4.658045	27.58472
17.29545	4.938141	24.47029	4.372404	27.95026
17.19346	4.315003	24.39778	4.054456	28.12618
17.22895	4.81462	24.21569	5.383167	27.54554
17.36705	4.50232	23.20367	6.748743	27.45264
17.39905	4.918614	22.34826	4.662574	27.62023
17.4387	4.761128	22.75337	4.513362	27.39139
17.47882	4.676101	22.69776	5.176101	27.43809
17.93012	5.363595	22.60884	4.733319	27.63186
17.80018	4.52473	22.17103	4.747142	26.79935
17.44131	5.346806	21.66439	5.925611	26.42574
17.64656	4.485108	21.38372	4.345754	26.53981
17.72645	5.243551	21.61374	7.579416	26.9577
17.75785	4.800678	21.97741	4.340247	26.58522
17.53731	4.34403	21.7122	6.019715	25.98882
17.53977	4.260069	21.66178	4.342404	27.02807
17.71862	4.38455	21.65414	4.546299	26.65156
17.92692	4.845586	21.95718	7.288264	26.08857
18.20836	4.394526	21.30739	4.134035	26.6178
18.59367	4.4808	21.80687	4.971248	27.54239
19.10351	4.552731	21.77308	3.956753	27.43016
19.18906	4.369278	21.74755	7.503269	27.60597
19.21486	4.263676	21.59694	5.485175	27.16126
20.01762	4.193155	21.49428	4.884045	27.58105

19.9575	4.224722	21.31632	5.80624	28.18
20.40553	4.323102	21.6404	6.702751	27.25401
20.43204	4.374086	22.09635	9.097949	27.49447
20.51125	4.415724	22.68922	65.4071	27.78208
20.75653	4.393436	22.93476	12.87009	27.62406
21.11625	4.431479	22.50741	12.42817	27.02062
21.09602	4.494583	22.5597	8.431763	27.37605
21.26156	4.268094	22.69144	9.088765	27.24031
21.6615	4.336943	22.79401	10.48747	26.80979
21.77773	4.428227	23.1973	6.674089	27.26531
21.80238	4.554108	22.96198	13.21527	26.77478
21.92452	4.649675	22.11164	7.075576	26.28783
21.66635	4.414924	21.61687	8.234591	26.79627
21.72047	4.399043	21.69443	10.17034	27.03463
21.70957	4.742225	21.99197	8.546275	26.51605
21.51864	4.503491	21.64782	9.851012	26.35011
21.32303	4.379184	21.62005	10.05544	27.38558
21.34691	4.352705	21.46112	9.987005	26.92548
21.3646	4.848015	21.64374	11.45271	25.72274
21.16789	4.476853	21.31479	8.397369	26.31074
21.30883	4.319756	20.85485	9.943368	26.71483
21.11623	4.723447	20.99575	9.331749	26.85497
20.8706	4.475708	20.88233	7.057144	26.3739
20.87045	4.493284	21.65783	6.991496	26.69188
20.66464	4.572901	21.73454	6.435292	26.48829
20.64722	4.565903	22.22885	12.03789	26.42303
20.71977	4.565456	21.78469	9.38295	26.44793
20.40559	4.61032	22.42151	6.690069	26.0533
20.2455	4.718253	23.01014	5.207335	26.26662
20.304	4.579127	22.97573	7.41721	25.91592
20.17954	4.576792	23.12314	6.125813	25.66662
20.28407	4.550788	23.75682	7.425339	25.9894
20.45156	4.667014	23.88992	9.449672	26.30839
20.21265	4.710568	23.52956	7.398733	26.30013
19.8446	4.982671	23.53707	7.531616	26.54513
19.66305	4.653668	24.08424	8.141555	26.50515
23.79792	4.741257	24.14851	8.909857	26.72431
25.13356	4.783992	23.48478	7.291225	27.303
24.55328	4.856102	23.55417	7.644104	27.33959
24.32558	4.991766	23.27944	6.644868	27.53164

29.58938	4.943444	22.82335	10.60907	27.55202
23.29125	5.287991	23.33833	7.829834	27.17455
28.32635	5.027031	21.00052	8.677301	26.45384
15.4549	5.242239	13.68637	8.742964	26.97066
17.65481	4.978864	13.78108	9.135463	26.90805
4.481323	5.039562	21.2938	9.219617	26.62468
4.118829	4.985883	14.85858	6.731551	26.57904
4.664699	4.863561	21.13627	10.82697	26.11707
5.20604	4.942122	20.38013	7.632466	25.49164
5.715464	5.061142	22.83661	9.104146	25.5908
6.228725	5.030741	24.83576	9.478375	25.8692
6.721927	4.74884	24.95931	8.340575	25.68054
7.187705	4.953345	25.64209	6.983927	26.40285
7.627119	4.768245	25.25382	5.77029	26.28196
8.072762	4.731955	25.69121	6.827226	25.41773
8.481621	4.650815	25.30639	6.07994	24.81029
8.886425	4.68601	25.04136	4.892207	25.82988
9.279737	4.464976	25.15118	6.606722	26.37222
9.575562	4.643841	24.59327	5.93134	26.04948
9.838899	4.566737	23.50798	10.42296	26.00454
10.15495	4.761097	22.91123	13.51242	25.65523
10.44121	4.485296	22.5457	6.927536	26.31289
10.81367	4.642929	23.04364	8.132379	26.40174
11.04895	4.496974	23.47012	6.822241	26.206
11.24889	4.442561	22.81573	7.899156	26.06462
11.477	4.361214	22.44118	9.072417	26.62971
11.89865	4.396119	22.67306	6.254782	26.93236
12.10128	4.46479	21.72146	6.183346	26.71716
12.36337	4.453112	21.81413	5.705389	26.67911
12.58741	4.457632	20.99464	4.639081	26.78752
12.7334	4.384196	20.53902	6.464703	27.06321
13.01276	4.364563	20.59979	6.914073	26.94174
13.17708	4.445801	20.92888	11.34452	26.24872
13.16756	4.618381	20.17147	8.242126	26.74778
13.67621	4.746426	20.6924	5.226142	27.11583
13.63114	4.683844	20.53772	6.281343	27.44383
15.40014	4.60167	21.14009	7.930066	27.24474
16.88077	4.544683	20.94184	11.23918	27.32852
17.99524	4.592624	22.01706	6.714017	27.23352
18.04453	4.64677	21.69623	7.009475	27.41963
20.15	4.687928	22.38328	10.70967	26.84319

20.78328	4.620436	22.44881	8.362748	26.49001
21.77159	4.539649	22.40009	6.642507	27.42146
15.56722	4.443669	23.11797	8.32567	28.0096
19.84616	4.370474	22.50944	5.700203	27.57788
8.752761	4.379535	22.73409	6.94594	27.47132
15.04248	4.488087	21.87113	12.55607	27.71815
7.72593	4.548433	21.90194	11.27596	27.80103
6.445845	4.5338	22.1122	6.148008	27.5156
5.371794	4.516177	22.10529	11.01205	27.81013
4.684762	4.51715	22.04495	6.490439	28.16133
4.170812	4.589955	22.2553	12.38515	28.32453
3.682924	4.707508	22.41919	6.504932	28.5513
2.968564	4.71129	22.09605	8.542091	28.7926
1.765127	4.591843	21.52344	6.909482	29.38065
2.03775	4.478614	21.04661	9.530502	29.09402
2.316633	4.398054	21.66835	6.735512	28.53684
2.639746	4.457204	22.0369	6.042439	27.77068
2.982546	4.470849	22.39411	6.965409	27.52788
3.398257	4.373038	22.32321	6.798694	28.5575
3.826196	4.394468	21.83298	8.986322	28.71434
4.228157	4.343588	21.92483	14.72625	28.38603
4.571213	4.34018	21.8612	8.029881	29.67196
4.797178	4.365769	21.04423	10.50954	30.4321
4.826605	4.371399	21.58224	10.36184	29.75423
4.76484	4.343413	22.22483	9.866554	29.76173
4.681707	4.436597	22.07774	10.25522	30.05064
4.488346	4.425158	22.23887	15.35579	29.96246
4.180099	4.416647	21.55593	12.48051	30.59658
3.865416	4.3864	21.26381	13.88176	30.88697
3.505896	4.333956	21.41456	17.94745	30.44748
3.114223	4.276679	22.61502	16.58138	30.43087
2.713944	4.361495	23.23407	14.42617	31.14401
2.267749	4.406975	23.38508	14.72463	30.92817
1.819756	4.416688	23.45661	12.59634	31.12029
1.361772	4.369437	23.68063	11.83083	31.4762
1.002546	4.311464	23.49648	11.15881	31.86318
0.799991	4.314465	24.2507	8.046105	31.38868
1.323714	4.231457	24.59213	3.284451	31.60847
1.814443	4.091058	24.8214	3.236255	32.51636
2.115942	4.06501	24.48395	3.28644	32.3448
2.301696	4.080801	23.7701	3.5572	32.34275

4.516263	4.061301	24.50372	3.923043	32.46376
17.26166	4.062726	24.87166	3.8411	32.74006
21.70595	4.074844	25.63952	3.400129	32.86733
24.11887	4.086311	25.24811	3.378674	33.14595
25.11463	4.110612	25.39376	3.466917	33.1549
25.76827	4.143156	26.41948	3.382468	33.41369
26.72531	4.160414	26.52504	3.416674	33.07687
26.69017	4.099909	26.72166	3.392272	33.5225
25.95715	4.104258	26.78475	3.447652	33.54232
25.68533	4.11562	26.60247	3.380615	34.07403
29.87003	4.199548	26.44929	3.278543	33.672
30.76526	4.331681	25.96068	3.277901	33.59352
31.90675	4.439098	25.54199	3.305586	33.44948
32.3806	4.49177	25.6462	3.286813	34.40065
32.85431	4.478189	25.45307	3.268205	34.76349
31.95616	4.407237	24.71902	3.239109	34.20869
30.48603	4.41111	24.58105	3.295889	35.02668
25.60044	4.32193	24.58599	3.269244	34.98357
6.535758	4.250861	24.75396	3.179375	34.10815
1.884214	4.254025	25.4437	3.188052	33.75036
1.671804	4.294128	25.65033	3.232554	35.08093
1.692681	4.412866	24.85671	3.255627	35.63465
1.731734	4.322162	25.27688	3.372434	34.97998
2.085696	4.216899	24.45842	3.569352	34.09039
2.217047	4.312366	24.71326	3.203885	34.06093
2.535404	4.407898	25.32031	3.285922	34.06545
2.290888	4.488315	25.32062	3.180617	33.63551
2.168349	4.615558	25.18408	3.212589	34.70276
2.784539	4.699256	24.88783	3.218778	35.00507
3.319404	4.64131	25.53151	3.188667	34.36319
3.785362	4.673314	25.64061	3.263385	34.73316
4.121521	4.714151	25.16702	3.416986	35.28743
4.044935	4.699172	25.41594	3.351536	35.4067
3.991714	4.738387	24.72207	3.319391	34.32404
4.17099	4.727733	24.84289	3.621615	34.87834
4.228313	4.785574	24.98452	3.952769	35.01844
4.646462	4.774986	23.63329	3.477599	33.79607
4.552958	4.718985	23.84015	3.204277	33.82023
4.642774	4.690155	23.60577	3.190286	34.66378
4.622911	4.589245	25.04671	3.249341	34.5394
4.411876	4.609657	25.16472	3.22785	34.25446
3.907443	4.598738	25.05277	3.310182	33.3994

4.835081	4.546607	26.00718	3.606764	33.31361
8.477765	4.503249	26.6242	3.344867	33.17148
11.68589	4.433472	26.48729	3.125118	34.19465
14.01993	4.37978	26.79613	3.421496	33.47849
15.66884	4.401134	27.54741	3.384796	33.19098
16.69291	4.441397	27.78967	3.641615	33.26058
17.44133	4.482541	27.67475	3.655224	34.01688
18.32611	4.519941	27.0695	3.12735	33.27992
19.1933	4.61387	27.09885	3.349954	32.77832
19.68338	4.71379	28.07422	3.134036	34.0328
20.06189	4.700534	29.29829	3.106524	33.91761
20.42477	4.560066	29.01747	3.169282	33.55602
20.79962	4.504657	29.6342	3.454893	33.53429
21.0972	4.594101	29.67451	3.142861	32.6224
21.34337	4.529839	29.5088	3.366739	32.88681
21.83097	4.486513	29.41759	3.403159	32.41238
22.20684	4.420943	29.49554	3.348938	32.6373
22.37608	4.373166	29.29628	3.163758	32.20461
22.51133	4.370707	29.30993	3.358588	31.89321
22.81944	4.407429	28.81804	3.381771	34.12598
22.97947	4.422386	28.20746	3.403949	34.15139
22.76203	4.376009	27.43574	3.671099	33.49997
22.99609	4.334874	27.29036	3.177278	33.62099
23.29	4.301733	27.973	3.875804	33.24766
23.41146	4.298758	28.46952	4.024596	33.26263

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