HackerRank

Ramanujan and Polynomials

Find the link to the problem doc here

Input Format

Please refer to the problem doc

Constraints

Please refer to the problem doc

Kindly go through the "Notes" section of the problem doc for important information.

Output Format

Please refer to the problem doc

Sample Input 0

```
3
1
complex
5
8 6 7 1 -3 4 -4 0 1 -1
6
8 1 3 -8 -10 1 -7 8 10 -8 -10 -4
2
float
5
0.42 -3.27 6.08 -9.46 2.54
-5
3
float
5
-4.77 5.35 7.56 5.23 -5.49
```

Sample Output 0

```
58 56 127 -31 -85 -76 -184 51 94 27 46 -205 -45 5 7 19 42 -2 -14 6
2938.770000
5.350000 15.120000 15.690000 -21.960000
```

Sample Input 1

```
3
1
integer
2
-79 -36
4
-33 -12 38 -41
1
float
```

```
5
73.42 15.41 -49.0 -97.82 16.69
3
-10.5 -56.39 28.81
1
complex
3
-49 66 -55 -56 -35 69
5
-32 66 83 44 -9 54 75 16 -26 99
```

Sample Output 1

```
2607 2136 -2570 1871 1476
-770.910000 -4301.958800 1760.760300 4234.182100 3929.134800 -3759.343300 480.838900
-2788 -5346 -1515 1484 -8658 -14826 -7153 5887 -11900 -14158 3245 626 -5921 -5259
```

Sample Input 2

```
3
2
integer
6
59 8 4 -44 7 0
4
2
float
4
41.06 37.88 -26.27 -26.74
10
2
string
4
9dTP 8ND8rI pnHmk Xy
3
```

Sample Output 2

Sample Input 3

```
2
3
integer
2
87 72
3
float
6
-81.48 48.33 77.01 -11.46 16.6 12.11
```

Sample Output 3

```
72
```

Sample Input 4

```
8
1
float
-5
2
1.2 -3.8
1
integer
3
3 0 5
3
-5 0 1
1
complex
1 -2 3 4 -5 0
-7 8 9 -10
2
integer
7 -5 0 3
2
2
float
7 -5.2 19.6 -3.578
string
7 -5 6 abc
2
3
integer
4
7 -5 0 3
3
float
7 -5.2 0 3.5
```

Sample Output 4

```
-6.000000 19.000000

-15 0 -22 0 5

9 22 -64 -32 102 -34 -45 50

21

46.376000

abcabcabcabcabcabcabc6666-5-57

-5 0 9

-5.200000 0.000000 10.500000
```

Sample Input 5

```
10
3
integer
6
```

```
-867 -553 167 -311 -207 -970
integer
4
841 -408 -919 748
3
float
4
-484.74 -522.71 -480.73 -860.98
string
3
rMWVZ Ld2yBM 6o91H
integer
-72 829 557 328 -238 682
231 219 -135 738
float
-844.87 -822.06 211.16
complex
-269 292 -736 -410 -429 186
650 -323 -631 -595 -611 -405
float
777.67 537.8
2
integer
-490 -318 -546
1
complex
141 -495 -743 691 428 566 318 894 -253 -601
916 -798 -48 424 262 -321 795 166
```

Sample Output 5

```
-553 334 -933 -828 -4850
262
-522.710000 -961.460000 -2582.940000
6091H6091H6091Hd02yBMLd2yBMrMWVZ
-16632 175731 319938 32700 553461 472206 423552 -267714 503316
-822.060000 422.320000
-80534 276687 -267351 -52969 284313 886630 665015 686479 337449 60099
537.800000
-47578
-265854 -565938 73942 1309414 464443 -346239 965582 768870 -1517235 180209 883562 574744 -154801 687269
-101369 -519793
```

Sample Input 6

```
25
1
complex
```

```
714 -796 -362 -954
3
float
4
-722.74 289.48 -814.07 -258.19
1
integer
10
-243 116 -947 -610 433 -64 942 318 307 -282
-828 149 -930 14
1
float
11
-236.26\ 144.85\ 359.17\ 312.02\ -788.77\ -453.36\ -251.05\ 858.96\ -601.49\ 966.48\ -986.01
452.26 670.04 253.77 -104.78 71.16 -952.18 -269.53 -451.65
integer
11
130 508 -273 574 936 -212 724 -605 898 866 883
204 -605 -707 624
integer
967 659 994 475 35
string
5
QCDZWN X3zj1pos9 J85kxdj SAFsu GKd2
1
2
string
5
5FRrN uxJbVD B keHtG n2JPq
1
float
2
488.7 -510.1
-507.66 -954.59
3
float
3
95.71 275.26 232.7
1
complex
11
431 -178 466 249 946 389 401 -525 240 712 -807 69 -490 -343 -249 -851 -833 442 -718 303 121 376
425 511 -487 279 -535 -230
float
-26.92 -606.3 792.57 -644.41 -85.71
3
integer
10
-525 436 -509 48 -342 995 -727 112 -623 497
3
float
753.71 107.57 739.26 315.12 -440.0 -161.65 -207.76 751.52 565.61 -841.79
integer
```

```
903 94 1 970 247 -475 280
integer
11
665 -584 -543 -273 793 210 818 560 -673 19 590
3
integer
6
-942 651 739 -863 80 -472
3
integer
4
-341 301 398 -25
integer
7
-873 -726 65 -93 128 -658 -875
3
integer
-475 -920 303 339 -9
integer
11
-192 -554 338 504 -866 -175 -817 -65 329 -419 -310
integer
457 461 -156 -327 124 -582 -995 271
-924 -877 765 248 141 374 917 -355 -91 -509
3
float
-238.0 246.66 -925.15 478.37 -85.06 221.32 481.04 -196.02
3
integer
942 643 598 -708 -802 378 244
1
complex
-315 16 -547 -304 211 129 -810 295 -983 -376 582 -948 -73 665 842 812 178 -727
-805 916 -994 852 741 884 843 348 -650 255 187 838 -435 322 -668 -294 -886 -862 -233 436 -953 132
```

Sample Output 6

```
-770944 12334 -779220 1274894 890704 1464224 653802 -635062 -530606 -1229844 -2296424 -372830 -1067878 383092
-693184 -229154 -1060242 -425996 -379762 -471876 -1876864 -537518 -465646 734378
289.480000 -1628.140000 -774.570000
201204 -132255 1027390 252695 432920 671551 -1200742 -57364 -1083770 -3313 -323076 266558 -3948
-64267.877900 \ -228154.876100 \ 750833.223300 \ 444494.382400 \ 426232.085300 \ -939748.542800 \ 626686.836500
-1216257.082300 950026.605900 -170751.416700 445331.416500
26520 24982 -454942 4225 353677 -1185698 -27620 172508 -94939 512885 -1356204 -586125 -83897 550992
659 1988 1425 140
GKd2SAFsuJ85kxdjX3zj1pos9QCDZWN
BBBBuxJbVDuxJbVDuxJbVD5FRrN
-248093.442000 -207550.767000 486936.359000
275.260000 465.400000
274133 144591 -89424 550886 -364667 653582 -322573 -184118 -727284 367099 -1029047 -474191 376141 -1091041
```

```
1110978 -309888 -37935 403358 -240145 -173229 671733 -171132 289989 -146318 21745 -228990
-606.300000 1585.140000 -1933.230000 -342.840000
436 -1018 144 -1368 4975 -4362 784 -4984 4473
107.570000 1478.520000 945.360000 -1760.000000 -808.250000 -1246.560000 5260.640000 4524.880000 -7576.110000
94 2 2910 988 -2375 1680
2038723879598
651 1478 -2589 320 -2360
301 796 -75
-726 130 -279 512 -3290 -5250
-920 606 1017 -36
-3736050887
-422268 -826753 89452 904961 231628 376096 2013045 363784 -1596286 -594174 -281415 -802472 -449292 591578
290578 481794 -137939
246.660000 -1850.300000 1435.110000 -340.240000 1106.600000 2886.240000 -1372.140000
643 1196 -2124 -3208 1890 1464
238919 -301420 1018277 -540616 267148 -341041 -345516 -1732833 1577187 -1836338 1330060 314347 -1388405
-882430\ 1734997\ -239459\ -1081151\ -218437\ -1352811\ 25221\ -634112\ -415693\ -73670\ 716327
```