**TEST CASE 1**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **3**  **4 7 2**  **8 6 1** | **47** |

**TEST CASE 2**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **3**  **9 8 7**  **3 2 1** | **46** |

**TEST CASE 3**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **4**  **29 22 24 26**  **30 28 22 25** | **2620** |

**TEST CASE 4**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **5**  **16 20 7 19 1**  **2 14 20 5 3** | **295** |

**TEST CASE 5**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **9**  **14 20 13 19 11 16 18 12 17**  **20 18 17 13 14 11 16 12 19** | **2096** |

**TEST CASE 6**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **11**  **21 22 32 31 28 27 26 30 25 24 29**  **26 21 25 24 31 32 30 33 27 22 23** | **7735** |

**TEST CASE 7**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **21**  **48 22 32 41 21 26 25 40 39 30 34 27 44 50 47 36 45 42 37 28 43**  **27 43 35 38 40 42 36 34 41 26 47 44 48 32 45 24 30 23 49 29 28** | **25969** |

**TEST CASE 8**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **10**  **670 603 536 469 402 335 268 201 134 67**  **830 747 664 581 498 415 332 249 166 83** | **1223420** |

**TEST CASE 9**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **50**  **207 319 355 380 473 418 425 451 220 371 159 430 369 300 315 309 317 239 148 328 264 183 482 463 443 195 306 283 200 231 197 487 486 447 322 335 232 366 124 424 174 372 385 363 223 111 126 171 293 122 240**  **137 130 310 241 338 227 321 337 328 326 296 393 334 116 333 176 197 250 443 353 379 303 404 471 410 1001 432 433 229 319 483 274 428 231 369 252 331 429 401 490 442 258 318 175 249 140 394 344 434 424 308** | **4463602** |

**TEST CASE 10**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **100**  **923 903 915 909 978 908 937 902 973 905 947 951 917 975 918 929 981 988 986 985 926 946 914 924 997 921 974 942 983 958 943 991 927 1000 939 959 949 994 960 995 971 950 980 964 933 952 955 913 941 911 953 999 932 992 976 967 920 996 972 906 969 936 945 954 901 957 928 963 993 961 948 930 982 935 910 968 966 956 912 987 922 907 934 989 900 962 931 919 998 904 990 970 984 916 925 979 977 938 944 965**  **968 920 987 992 913 957 931 945 936 981 938 961 909 900 955 973 956 958 976 926 943 999 915 952 977 997 923 994 947 908 993 916 967 903 910 980 919 921 946 953 917 914 972 991 959 932 928 960 935 905 942 927 934 996 979 902 911 901 988 983 937 964 948 944 925 986 966 949 930 933 907 998 940 990 950 939 965 969 929 951 924 982 963 974 1000 995 904 922 985 975 954 918 912 984 941 989 971 906 970 978** | **90162373** |