FUNDAMENTALS OF COMPUTING

192110441

K.PRAVEEN KUMAR

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

gnrtn of odd no's 3.cpp

```c
#include<stdio.h>

int main()
{
    int n;
    scanf("%d",&n);
    for(int i=1;i<=n;i++)
    {
        if(i%2!=0)
        printf("%d ",i);
    }
}
```

C:\Users\lenovo\Documents\gnrtn of odd no's 3.exe

```
13579
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 7
7 79 81 83 85 87 89 91 93 95 97 99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137
139 141 143 145 147 149 151 153 155 157 159 161 163 165 167 169 171 173 175 177 179 181 183 185 187 189 191 1
93 195 197 199 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233 235 237 239 241 243 245 247
249 251 253 255 257 259 261 263 265 267 269 271 273 275 277 279 281 283 285 287 289 291 293 295 297 299 301 3
03 305 307 309 311 313 315 317 319 321 323 325 327 329 331 333 335 337 339 341 343 345 347 349 351 353 355 357
359 361 363 365 367 369 371 373 375 377 379 381 383 385 387 389 391 393 395 397 399 401 403 405 407 409 411 4
13 415 417 419 421 423 425 427 429 431 433 435 437 439 441 443 445 447 449 451 453 455 457 459 461 463 465 467
469 471 473 475 477 479 481 483 485 487 489 491 493 495 497 499 501 503 505 507 509 511 513 515 517 519 521 5
23 525 527 529 531 533 535 537 539 541 543 545 547 549 551 553 555 557 559 561 563 565 567 569 571 573 575 577
579 581 583 585 587 589 591 593 595 597 599 601 603 605 607 609 611 613 615 617 619 621 623 625 627 629 631 6
33 635 637 639 641 643 645 647 649 651 653 655 657 659 661 663 665 667 669 671 673 675 677 679 681 683 685 687
689 691 693 695 697 699 701 703 705 707 709 711 713 715 717 719 721 723 725 727 729 731 733 735 737 739 741 7
43 745 747 749 751 753 755 757 759 761 763 765 767 769 771 773 775 777 779 781 783 785 787 789 791 793 795 797
799 801 803 805 807 809 811 813 815 817 819 821 823 825 827 829 831 833 835 837 839 841 843 845 847 849 851 8
53 855 857 859 861 863 865 867 869 871 873 875 877 879 881 883 885 887 889 891 893 895 897 899 901 903 905 907
909 911 913 915 917 919 921 923 925 927 929 931 933 935 937 939 941 943 945 947 949 951 953 955 957 959 961 9
63 965 967 969 971 973 975 977 979 981 983 985 987 989 991 993 995 997 999 1001 1003 1005 1007 1009 1011 1013
1015 1017 1019 1021 1023 1025 1027 1029 1031 1033 1035 1037 1039 1041 1043 1045 1047 1049 1051 1053 1055 1057
1059 1061 1063 1065 1067 1069 1071 1073 1075 1077 1079 1081 1083 1085 1087 1089 1091 1093 1095 1097 1099 1101
1103 1105 1107 1109 1111 1113 1115 1117 1119 1121 1123 1125 1127 1129 1131 1133 1135 1137 1139 1141 1143 1145
1147 1149 1151 1153 1155 1157 1159 1161 1163 1165 1167 1169 1171 1173 1175 1177 1179 1181 1183 1185 1187 1189
1191 1193 1195 1197 1199 1201 1203 1205 1207 1209 1211 1213 1215 1217 1219 1221 1223 1225 1227 1229 1231 1277
1235 1237 1239 1241 1243 1245 1247 1249 1251 1253 1255 1257 1259 1261 1263 1265 1267 1269 1271 1273 1275 1277
1279 1281 1283 1285 1287 1289 1291 1293 1295 1297 1299 1301 1303 1305 1307 1309 1311 1313 1315 1317 1319 1321
1323 1325 1327 1329 1331 1333 1335 1337 1339 1341 1343 1345 1347 1349 1351 1353 1355 1357 1359 1361 1363 1365
1367 1369 1371 1373 1375 1377 1379 1381 1383 1385 1387 1389 1391 1393 1395 1397 1399 1401 1403 1405 1407 1409
1411 1413 1415 1417 1419 1421 1423 1425 1427 1429 1431 1433 1435 1437 1439 1441 1443 1445 1447 1449 1451 1453
1455 1457 1459 1461 1463 1465 1467 1469 1471 1473 1475 1477 1479 1481 1483 1485 1487 1489 1491 1493 1495 1497
```

Compiler   Resources   Compile Log   Debug   Find Results

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\gnrtn of odd no's 3.exe
- Output Size: 128.125 KiB
- Compilation Time: 1.45s
```

Line: 1   Col: 1   Sel: 0   Lines: 13   Length: 134   Insert   Done parsing in 0.094 seconds

Desktop   29°C Haze   ENG   09:58   11-01-2023

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

gnrtn of fibbonacci srs 4.cpp

```c
#include<stdio.h>

int main()
{
    int n,n3=0,n1=1,n2=0;
    scanf("%d",&n);
    printf("%d ",n2);
    for(int i=1;i<n;i++)
    {
        n3=n1+n2;
        printf(" %d ",n3);
        n1=n2;
        n2=n3;
    }
}
```

C:\Users\lenovo\Documents\gnrtn of fibbonacci srs 4.exe

```
01123
0  1  1  2  3  5  8  13  21  34  55  89  144  233  377  610  987  1597  2584  4181  6765  10946  17711  28657  46368  7
025  121393  196418  317811  514229  832040  1346269  2178309  3524578  5702887  9227465  14930352  24157817  39088169
63245986  102334155  165580141  267914296  433494437  701408733  1134903170  1836311903  -1323752223  512559680  -81119
543  -298632863  -1109825406  -1408458269  1776683621  368225352  2144908973  -1781832971  363076002  -1418756969  -105
680967  1820529360  764884393  -1709589543  -944741150  1640636603  695895453  -1958435240  -1262539787  1073992269  -1
8547518  885444751  696897233  1582341984  -2015720079  -433386095  1845853122  1412467027  -1036647147  375819880  -66
827267  -285007387  -945834654  -1230842041  2118290601  887448560  -1289228135  -401779575  -1691007710  -2092787285  9
11172301  -1581614984  -1070442683  1642909629  572466946  -2079590721  -1507123775  708252800  -798870975  -90618175
889489150  -980107325  -1869596475  1445263496  -424332979  1020930517  596597538  1617528055  -2080841703  -463313648
1750811945  1287498297  -1256657054  30841243  -1225815811  -1194974568  1874176917  679202349  -1741588030  -106238568
1490099385  428607904  1919601489  -1946757903  -27156414  -1973914317  -2001070731  1939982248  -1681088483  -1361106
35  1252772578  -108333657  1144438921  1036105264  -2114423111  -1078317847  1102226338  23908491  1126134829  1150043
20  -2018789147  -868745827  1407432322  538686495  1946118817  -1810161984  135956833  -1674205151  -1538248318  10825
3827  -455734491  626779336  171044845  797824181  968869026  1766693207  -1559405063  207288144  -1352116919  -1144828
75  1798021602  653192827  -1843752867  -1190560040  1260654389  70094349  1330748738  1400843087  -1725907855  -162532
84  -1725907855  -1888440239  680619202  -1207821037  -527201835  -1735022872  2032742589  297719717  -1964504990  -166
785273  663677033  -1003108240  -339431207  -1342539447  -1681970654  1270457195  -411513459  858943736  447430277  130
374013  1753804290  -1234788993  519015297  -715773696  -196758399  -912532095  -1109290494  -2021822589  1163854213  -
57968376  305885837  -552082539  -246196702  -798279241  -1044475943  -1842755184  1407736169  -435019015  972717154  5
7698139  1510415293  2048113432  -736438571  1311674861  575236290  1886911151  -1832819855  54091296  -1778728559  -17
4637263  791601474  -933035789  -141434315  -1074470104  -1215904419  2004592773  788688354  -1501686169  -712997815  2
80283312  1367285497  -847398487  51988701  -327511477  192375533  -135135944  57239589  -77896355  -20656766  -985531
1  -119209887  -217763008  -336972895  -554735903  -891708798  -1446444701  1956813797  510369096  -1827784403  -131741
307  1149767586  -167647721  982119865  814472144  -1683903143  112688866  -1571214277  -1458525411  126522
60  -193297803  1071929805  878632002  1950561807  -1465773487  484788320  -980985167  -496196847  -1477182014  -19733
8861  844406421  -1128972440  -284566019  -1413538459  -1698104478  1183324359  -514780119  668544240  153764121  82230
361  976072482  1798380843  -1520513971  277866872  -1242647099  -964780227  2087539970  1122759743  -1084667583  38092
60  -1046575423  -1008483263  -2055058686  1231425347  -823633339  407792008  -415841331  -8049323  -423890654  -431939
77  -855830631  -1287770608  -2143601239  863595449  -1280005790  -416410341  -1696416131  -2112826472  485724693  -162
```

Compiler   Resources   Compile Log   Debug   Find Re

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\gnrtn of fibbonacci srs 4.exe
- Output Size: 128.130859375 KiB
- Compilation Time: 0.89s
```

Line: 1   Col: 1   Sel: 0   Lines: 16   Length: 189   Insert   Done parsing in 0.078 seconds

Desktop   29°C Haze   ENG   09:59   11-01-2023

Program 1: Summing up even number series

```c
#include<stdio.h>

int main()
{
    int n,sum=0;
    scanf("%d",&n);
    for(int i=1;i<=n;i++)
    {
        if(i%2==0)
            sum=sum+i;
    }
    printf("%d",sum);
}
```

Output:
```
246
15252

--------------------------------
Process exited after 5.904 seconds with return value 0
Press any key to continue . . .
```

Program 2: Summing up cube of n numbers

```c
#include<stdio.h>
int main()
{ int n,sum=0;
    scanf("%d",&n);
    for( int i=1;i<=n;i++)
    { sum=sum+(i*i*i);
    }
    printf("%d",sum);
}
```

Output:
```
246
923005161

--------------------------------
Process exited after 18.37 seconds with return value 0
Press any key to continue . . .
```

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

TDM-GCC 4.9.2 64-bit Release

odd or even 8.cpp

```c
#include<stdio.h>

int main()
{
    int n,sum=0;
    scanf("%d",&n);
    if(n%2==0)
    printf("its a even number");
    else
    printf("its  odd number");
}
```

C:\Users\lenovo\Documents\odd or even 8.exe

```
9
its  odd number
--------------------------------
Process exited after 18.18 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\odd or even 8.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.69s
```

Line: 1   Col: 1   Sel: 0   Lines: 12   Length: 154   Insert   Done parsing in 0.109 seconds

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Armstrong or not 10.cpp

```c
#include<stdio.h>

int main()
{
    int n,sum=0,m=0,t=0;
    printf("enter the number :");
    scanf("%d",&n);
    t=n;
    while(n!=0)
    {
        m=n%10;
        sum=sum+(m*m*m);
        n/=10;

    }
    if(sum==t)
    printf("Its a armstrong number");
    else
    printf("its not a armstring number");
}
```

C:\Users\lenovo\Documents\Armstrong or not 10.exe

```
enter the number :10
its not a armstring number
--------------------------------
Process exited after 6.535 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\Armstrong or not  10.exe
- Output Size: 128.6259765625 KiB
- Compilation Time: 0.94s
```

Line: 1   Col: 1   Sel: 0   Lines: 21   Length: 284   Insert   Done parsing in 0.078 seconds

Program 1: finding average 11.cpp

```c
#include<stdio.h>

int main()
{
    int n,sum=0,m=0,t=0;
    printf("enter the number :");
    scanf("%d",&n);
    t=n;
    for(int i=1;i<=n;i++)
    {
        sum+=i;
    }

    printf("%d",sum/n);
}
```

Output terminal (finding average 11.exe):
```
enter the number :67
34
------------------------------
Process exited after 8.994 seconds with return value 0
Press any key to continue . . .
```

Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\finding average 11.exe
- Output Size: 128.125 KiB
- Compilation Time: 1.09s

Program 2: Printing digits of an integer number 12.cpp

```c
#include<stdio.h>

int main()
{
    int n;
    printf("enter the number :");
    scanf("%d",&n);

    while(n!=0)
    {
        printf("%d \n",n%10);

        n/=10;
    }
}
```

Output terminal (Printing digits of an integer number 12.exe):
```
enter the number :45
5
4
------------------------------
Process exited after 3.042 seconds with return value 0
Press any key to continue . . .
```

Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\Printing digits of an integer number 12.exe
- Output Size: 128.1455078125 KiB
- Compilation Time: 0.81s

Reversing the digits 14.cpp

```c
#include<stdio.h>

int main()
{
	int n,rev=0;
	printf("enter the number :");
	scanf("%d",&n);

	while(n!=0)
	{
		rev=(rev*10)+n%10;
		n/=10;
	}
	printf("%d",rev);

}
```

Output:
```
enter the number :65
56
------------------------------
Process exited after 2.927 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\Revering the digits 14.exe
- Output Size: 128.1279296875 KiB
- Compilation Time: 0.88s

Factorial of a given number 9.cpp

```c
#include<stdio.h>

int main()
{
	int n,sum=1;
	printf("enter the number :");
	scanf("%d",&n);
	for(int i=1;i<=n;i++)
	{
		sum*=i;
	}
	printf("%d",sum);
}
```

Output:
```
enter the number :5
120
------------------------------
Process exited after 21.74 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\Factorial of a given number 9.exe
- Output Size: 128.134765625 KiB
- Compilation Time: 0.86s

Program 1: Reversing the digits

```c
#include<stdio.h>

int main()
{
    int n,rev=0;
    printf("enter the number :");
    scanf("%d",&n);

    while(n!=0)
    {
        rev=(rev*10)+n%10;
        n/=10;
    }
    printf("%d",rev);

}
```

Output:
```
enter the number :1234
4321

--------------------------------
Process exited after 3.807 seconds with return value 0
Press any key to continue . . .
```

Program 2: Positive or negative

```c
#include<stdio.h>

int main()
{
    int n;
    printf("enter the number :");
    scanf("%d",&n);
    if(n>0)
    printf("postive number");
    else if(n<0)
    printf("negative number");

}
```

Output:
```
enter the number :999
postive number

--------------------------------
Process exited after 12.68 seconds with return value 0
Press any key to continue . . .
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

Armstrong or not 10.cpp | finding average 11.cpp | Printing digits of an integer number 12.cpp | Rever

```c
1    #include<stdio.h>
2
3
4    int main()
5    {
6        int a,b,c;
7        printf("enter the number :");
8        scanf("%d",&a);
9        printf("enter the number :");
10       scanf("%d",&b);
11       printf("before swapping ->value of a:%d and value of b:%d\n",a,b);
12       c=a;
13       a=b;
14       b=c;
15       printf("after swapping ->value of a:%d and value of b:%d\n",a,b);
16
17
18
19
20   }
```

```
enter the number :1233
enter the number :12456
before swapping ->value of a:1233 and value of b:12456
after swapping ->value of a:12456 and value of b:1233

--------------------------------
Process exited after 31.6 seconds with return value 0
Press any key to continue . . .
```

Compiler | Resources | Compile Log | Debug | Find Results | Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
---------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\lenovo\Documents\Revering the digits 14.exe
- Output Size: 128.1279296875 KiB
- Compilation Time: 0.88s
```

Line: 1 | Col: 1 | Sel: 0 | Lines: 20 | Length: 324 | Insert | Done parsing in 0.015 seconds

Activate Windows
Go to Settings to activate Windows.

Desktop   27°C Haze   ENG   10:33 11-01-2023

File Edit Search View Project Execute Tools AStyle Window Help

```
(globals)
```

Project Classes Debug | Untitled1 | dec to hexa 17.cpp | hexa to dec 18.cpp | dec to octal 19.cpp | octal to dec 20.cpp

```c
#include "stdio.h"

int bdiv( int dividend , int divisor )
{
    int remainder = dividend ;
    int quotient  = 0 ;

    int i ;
    for( i = 0 ; i < 17 ; i++ )
    {
        remainder = remainder - divisor ;
        if( (remainder & 0x8000) )
        {
            remainder = remainder + divisor ;
            quotient = quotient << 1 ;
        }
        else
            quotient = ( quotient << 1 ) | 0x1 ;

        divisor = divisor >> 1 ;
    }
    return quotient ;
}

int main()
{
    int a = 7 ;
    int b = 2 ;

    printf( "%d\n" , bdiv(a,b) ) ;
}
```

C:\Users\Lucky\Documents\binary division 25.exe

```
131071
--------------------------------
Process exited after 0.03258 seconds with return value 0
Press any key to continue . . .
```

Compiler (2) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
		C:\Users\Lucky\Documents\octal to dec 20.cpp	In function 'int main()':
10	30	C:\Users\Lucky\Documents\octal to dec 20.cpp	[Error] 'pow' was not declared in this scope

Line: 1   Col: 1   Sel: 0   Lines: 32   Length: 562   Insert   Done parsing in 0 seconds

---

File Edit Search View Project Execute Tools AStyle Window Help

```
(globals)
```

Project Classes Debug | Untitled1 | dec to hexa 17.cpp | hexa to dec 18.cpp | dec to octal 19.cpp

```c
#include<stdio.h>
int convert(int dec);
int main()
{
    int dec;
    printf("enter the decimal number:");
    scanf("%d", & dec);
    printf("the octal number of %d is %d",dec,convert(dec));
    return 0;
}
int convert(int dec)
{
    int octal=0,i=1;
    while(dec!=0)
    {
        octal+=(dec%8)*i;
        dec/=8;
        i*=10;
    }
    return octal;
}
```

C:\Users\Lucky\Documents\dec to octal 19.exe

```
enter the decimal number:17
the octal number of 17 is 21
--------------------------------
Process exited after 9.143 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results

Line: 1   Col: 1   Sel: 0   Lines: 21   Length: 333   Insert   Done parsing in 0 seconds

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Untitled1   dec to hexa 17.cpp   hexa to dec 18.cpp

```c
#include<stdio.h>
int main()
{
    int n;
    printf("enter the hexa value:");
    scanf("%x",&n);
    printf("the decimal value is :%d",n);
    return 0;
}
```

C:\Users\Lucky\Documents\hexa to dec 18.exe

```
enter the hexa value:16
the decimal value is :22
--------------------------------
Process exited after 10.96 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results

Line: 1   Col: 1   Sel: 0   Lines: 9   Length: 151   Insert   Done parsing in 0.016 seconds

Type here to search

30°C Cloudy   10:07 AM 1/11/2023

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Untitled1   dec to hexa 17.cpp

```c
#include<stdio.h>
int main()
{
    int n;
    printf("enter the decimal value:");
    scanf("%d",&n);
    printf("the hexa value is :%x",n);
    return 0;
}
```

C:\Users\Lucky\Documents\dec to hexa 17.exe

```
enter the decimal value:14
the hexa value is :e
--------------------------------
Process exited after 15.09 seconds with return value 0
Press any key to continue . . .
```

Compiler   Resources   Compile Log   Debug   Find Results

Line: 1   Col: 1   Sel: 0   Lines: 10   Length: 154   Insert   Done parsing in 0.141 seconds

Type here to search

30°C Cloudy   10:05 AM 1/11/2023