

# Ubuntu Pastebin

## Paste from Euler totient Function at Wed, 9 Sep 2015 07:46:14 +0000

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```
1 Euler totient Function
2 All Gcd....1
3 ll rr()
4 {
5     for(int i=2;i<=5000000;i++) ar[i]=i;
6     for(int i=2;i<=5000000;i++)
7     {
8         if(ar[i]==i)
9         {
10             ar[i]=ar[i]-1;
11             for(int j=i+i;j<=5000000;j+=i)
12             {
13                 ar[j]-=ar[j]/i;
14             }
15         }
16     }
17     ar[0]=0;
18     ar[1]=0;
19     for(int i=2;i<=5000000;i++)
20     {
21         ar[i]=(unsigned long long) (ar[i]*ar[i])+ar[i-1];
22     }
23 }
24
25 int main()
26 {
27     ios_base::sync_with_stdio(false);
28     int t;
29     rr();
30     scanf("%d",&t);
31     int ks=1;
32     while(t--)
33     {
34         printf("Case %d: ",ks++);
35         scanf("%lld",&n);scanf("%lld",&m);
36         printf("%llu\n",ar[m]-ar[n-1]);
37     }
38 }
```

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