```
// Euler_phi_table_complexity_O(n)
#define N 1000005
int lp[N + 1];
int phi[N + 1];
vector<int> pr;
void calc_sieve()
    phi[1] = 1;
    for (int i = 2; i \le N; ++i)
        if (lp[i] == 0)
            lp[i] = i;
            phi[i] = i - 1;
            pr.push back(i);
        }
        else
        {
             //Calculating phi
             if (lp[i] == lp[i / lp[i]])
                 phi[i] = phi[i / lp[i]] * lp[i];
            else
                 phi[i] = phi[i / lp[i]] * (lp[i] - 1);
        }
        for (int j = 0; j < (int)pr.size() && pr[j] <= lp[i] && i * pr[j]
<= N; ++j)
            lp[i * pr[j]] = pr[j];
    }
}/// O(n)
int main()
    long long n;
    calc_sieve();
    int \overline{T};
    scanf("%d",&T);
    for( int t=1; t<=T; t++ )</pre>
```

scanf("%d",&n);

return 0;

}

printf("%d\n",phi[n]);