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406410114 UVA11005 Cheapest Base
//question
//intput : test case number, 4line * 9 int , query number
#include <bits/stdc++.h>
using namespace std;
int main(){
        int i,j,k,test_number,query_number;
        long long int bit cost[36],t,min cost = 0;
        vector < long long int > cost;
        cin >> test number;
        for ( i = 0; i < test number; i++ ) {
                for ( j = 0; j < 36; j++ )
                         cin >> bit cost[j];
                cin >> query_number;
                cout << "Case " << i+1 << ":\n";
                while ( query_number-- ) {
                         //boot
                         min_cost = 12800;
                         cost.clear();
                         cin >>t;
                         cout << "Cheapest base(s) for number " << t << ":";</pre>
                         for (j = 2; j \le 36; j++){
                                 long long temp = t,temp_cost = 0;
                                 while ( temp != 0 ) {
                                          temp_cost += bit_cost[temp % j] ;
                                          temp /=j;
                                 }//while
                                 cost.push back( temp cost );
                                 min cost = min( temp cost, min cost );
                         }//for
                         for (j = 0; j < cost.size(); j++)
                                 if ( cost[j] == min cost )
                                         cout << " "<< j+2;
                         cout << endl;</pre>
                 }//while
                if ( i < test number-1 )</pre>
                         cout << endl;</pre>
        }//for
        return 0;
}//main()
```