

Experiment: - 10

Student Name: Rajdeep Jaiswal

Branch: BE (CSE)

Semester: 5th

Subject Name: Competitive Coding (20CSP-314)

UID: 20BCS2761

Section/Group: 20BCS-WMS-902/B

1. Marc's Cakewalk

Program Code:

```
#include <bits/stdc++.h> using
namespace std;

#define rep(i,n) for(int (i)=0;(i)<(int)(n);++(i))
#define rer(i,l,u) for(int (i)=(int)(l);(i)<=(int)(u);++(i))
#define neu(i,l,u) for(int (i)=(int)(l);(i)<(int)(u);++(i))
static const int INF = 0x3f3f3f3f; static const
long long INFL = 0x3f3f3f3f3f3f3f3fLL;
typedef vector<int> vi; typedef
pair<int, int> pii; typedef
vector<pair<int, int> > vpii;
typedef long long ll;
template<typename T, typename U> static
void amin(T &x, U y) { if (y < x) x
= y; } template<typename T, typename
U> static void amax(T &x, U y) { if
(x < y) x
= y; }
int main(void) { int n;
while (~scanf("%d", &n)) {
vector<int> c(n); for (int
i = 0; i < n; ++ i)
scanf("%d", &c[i]);
sort(c.begin(), c.end());
ll ans = 0; rep(i, n)
ans += (ll)c[i] << (n - 1 - i);
printf("%lld\n", ans);
}
}
```

Output:

Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

[Next Challenge](#)

<input checked="" type="checkbox"/> Test case 0	Compiler Message
<input checked="" type="checkbox"/> Test case 1 <input type="lock"/>	Success
<input checked="" type="checkbox"/> Test case 2 <input type="lock"/>	Input (stdin) Download
<input checked="" type="checkbox"/> Test case 3 <input type="lock"/>	1 3 2 1 3 2
<input checked="" type="checkbox"/> Test case 4 <input type="lock"/>	Expected Output Download
<input checked="" type="checkbox"/> Test case 5	1 11

2. Grid

Challenge

Program Code:

```
#include <bits/stdc++.h> using  
namespace std;
```

```
typedef long long ll;
typedef pair<int, int> Pii; typedef pair<ll,
ll> Pll;
#define _USE_MATH_DEFINES
#define _CRT_SECURE_NO_DEPRECATE
#define FOR(i,n) for(int i = 0; i < (n); i++)
#define sz(c) ((int)(c).size()) #define
ten(x) ((int)1e##x) #define tenll(x)
((ll)1e##x)
template<class T> T gcd(T a, T b) { return b ? gcd(b, a % b) : a; } void
solve(){ int n; cin >> n; vector<string> v(n);
FOR(i, n) cin >> v[i];
FOR(i, n) sort(v[i].begin(), v[i].end());
bool b = true;
FOR(i, n){ string
x;
FOR(j, n) x.push_back(v[j][i]); string
y = x; sort(y.begin(),
y.end()); if (x != y) { b
= false;
}
} puts(b ? "YES" :
"NO"); }
int main(void){
int t; cin >>
t; while
(t--) {
solve(); }
}
```

Output:

Congratulations

You solved this challenge. Would you like to challenge your friends?




Next Challenge

✓ Test case 0

✓ Test case 1 

✓ Test case 2 

✓ Test case 3 

✓ Test case 4 

✓ Test case 5 

✓ Test case 6 

Compiler Message

Success

Input (stdin)

Download

```
1 1
2 5
3 eabcd
4 fghij
5 olkmn
6 trpqs
7 xywuv
```