

Program:

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

int main()
{
    int N,n;

    cin >> N;

    for (int i=0; i<N; i++)
    {
        deque<int> LeftSide, RightSide;

        cin >> n;
        int T;
        for (int i=0; i<n; i++)
        {
            cin >> T;
            LeftSide.push_back(T);
        }

        sort(LeftSide.begin(), LeftSide.end());
        int TotalTime = 0;
        stringstream fout;
        while(1)
        {
            int A = LeftSide[0];

            if (LeftSide.size() == 1) {fout << A; TotalTime += A; break;}

            int B = LeftSide[1];
            if (LeftSide.size() == 2)
            {
                fout << A << " " << B; TotalTime += B;break;
            }

            if (LeftSide.size() == 3)
            {
                fout << A << " " <<LeftSide[2] << endl << A << endl << A << " " <
                < B ;

                TotalTime += B + A + LeftSide[2];
                break;
            }
        }
    }
}
```

```

    }
    int Y, Z;

    Z = LeftSide.back();
    LeftSide.pop_back();
    Y = LeftSide.back();
    LeftSide.pop_back();
    if (A + Y < 2*B)
    {
        fout << A << " " << Z << endl << A << endl << A << " " << Y << endl << A << endl;
        TotalTime += Z + 2*A + Y;
    }
    else
    {
        fout << A << " " << B << endl << A << endl << Y << " " << Z << endl << B << endl;
        TotalTime += 2*B + A + Z;
    }
}
cout<<"\n";
cout<< TotalTime << endl << fout.str() << endl;

if (i != N-1) cout << endl ;
}
return 0;
}

```

Output:

```

1
4
1
2
5
10

17
1 2
1
5 10
2
1 2

```