

```
#include <stdio.h>

int main(){
    int n1, i, j;
    scanf("%d", &n1);

    int k = (n1-1)/2, ar1[n1];

    for(i = 0; i < n1; i++)
        scanf("%d", &ar1[i]);

    for(i = 0; i < n1; i++){
        // We have not yet reached the fattest part of the diamond
        if(i <= k){
            for(j = 0; j < k - i; j++)
                printf(" ");
            for(j = k - i; j <= k + i; j++)
                printf("%d", ar1[j]);
            //No trailing new lines
            if(i < n1-1) printf("\n");
        }
        // We have passed the fattest part of the diamond
        else{
            for(j = 0; j < i - k; j++)
                printf(" ");
            for(j = i - k; j <= n1 - i + k - 1; j++)
                printf("%d", ar1[j]);
            //No trailing new lines
            if(i < n1-1) printf("\n");
        }
    }
    return 0;
}
```