

# Test examples

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## 1 Solutions to the example test

### Problem 1

```
In [ ]: int a[50];
        for(int i=0; i<50; ++i)
            a[i] = 0;
```

```
In [ ]: double *p = &d;
        *p = 30;
```

```
In [ ]: double fun(int a[][20], int n, int m)
```

### Problem 2

```
In [ ]: double *p=(double *)malloc(50*sizeof(double));
        for(int i=0; i<50; ++i)
            p[i] = 9.5;
        free(p);
```

```
In [ ]: FILE *f = fopen("data.dat", "r");
        char aa[1000];
        fgets(aa, 1000, f);
        fclose(f);
```

```
In [ ]: struct student{
        char[256] fname;
        char[256] lname;
        int id;
    } s1, s2, s3;
```

### Problem 3

```
In [ ]: #include <stdio.h>
        #include <stdlib.h>

        int main(){
            FILE *f = fopen("data.dat", "r");
```

```
int n;
fscanf(f, "%d", &n);
double *x = (double *)malloc(n * sizeof(double));
double *y = (double *)malloc(n * sizeof(double));
for(int i=0; i<n; ++i)
{
    fscanf("%lf %lf", &x[i], &y[i]);
}
printf("%lf %lf %lf %lf\n", x[10], y[10], x[15], y[15]);

free(x); free(y);
fclose(f);
}
```