1. Sec1

1.1. **T1.**

```
1 #include <bits/stdc++.h>
 2 using namespace std;
 3 | \# define MAXL (50000 >> 5) + 1
 4 | \# define GET(x) (mark [x>>5]>>(x&31)&1)
 5 | \# define SET(x) (mark[x>>5] | = 1 << (x \& 31))
 6 int mark [MAXL];
 7 | \mathbf{int} P[50000], Pt = 0;
 8 void sieve() {
 9
       register int i, j, k;
10
       SET(1);
11
       int n = 46340:
       for (i = 2; i \le n; i++) {
12
13
            if (!GET(i)) {
                for (k = n/i, j = i*k; k >= i; k--, j -= i)
14
15
                     SET(i):
16
                P[Pt++] = i;
17
18
19
```

1.2. **T2.**

```
1 #include <bits/stdc++.h>
2 using namespace std;
3 #define MAXL (50000>>5)+1
4 | \# define GET(x) (mark[x>>5]>>(x&31)&1)
5 | \# define SET(x) (mark[x>>5] | = 1 << (x \& 31))
6 int mark [MAXL];
7 int P[50000], Pt = 0;
8 void sieve() {
       register int i, j, k;
      SET(1);
10
11
       int n = 46340;
12
       for (i = 2; i \le n; i++) {
13
           if (!GET(i)) {
               for (k = n/i, j = i*k; k >= i; k--, j -= i)
14
15
                   SET(j);
16
               P[Pt++] = i;
17
18
19
```

2. Sec2

```
1 #include <bits/stdc++.h>
 2 using namespace std;
 3 | \# define MAXL (50000 >> 5) + 1
 4 | \# define GET(x) (mark [x>>5]>>(x&31)&1)
 5 | \# define SET(x) (mark[x>>5] | = 1 << (x \& 31))
 6 int mark [MAXL];
 7 | \mathbf{int} P[50000], Pt = 0;
 8 void sieve() {
       register int i, j, k;
       SET(1);
10
11
       int n = 46340;
       for (i = 2; i \le n; i++) {
12
13
            if (!GET(i)) {
14
                for (k = n/i, j = i*k; k >= i; k--, j -= i)
15
                P[Pt++] = i;
16
17
18
19 }
```

2.2. **T4.**

```
1 #include <bits/stdc++.h>
2 using namespace std;
3 | \# define MAXL (50000 >> 5) + 1
4 #define GET(x) (mark [x>>5]>>(x&31)&1)
5 | \# define SET(x) (mark[x>>5] | = 1 << (x \& 31))
6 int mark [MAXL];
7 | \mathbf{int} \ P[50000], \ Pt = 0;
8 void sieve() {
       register int i, j, k;
10
       SET(1);
11
       int n = 46340;
12
       for (i = 2; i \le n; i++) {
13
            if (!GET(i)) {
14
                for (k = n/i, j = i*k; k >= i; k--, j -= i)
15
                    SET(j);
                P[Pt++] = i;
16
17
18
19 }
```