```
ard *, char *, int *)

 moves possible

tle
ecursion
siyon açıp kapanırsa staack temiz kalır
oard *brdp,char *previous_move,int *movecount){
NULL));

p);

brdp))

t(brdp);

(brdp,previous_move);
t)++;
works\n");
rint(brdp);
h(brdp,previous_move,movecount);

ard *brdp,char *repeat){ ⋯
```

Terminal window — 210104004041 — test ‹ make — 80×24

```
2. Finish the game with PC
3. Show the best score
4. Exit
>  2


1 2 3
4 5 6
7 8 _

Computer made 103469 moves
This was the first board:


3 _ 4
7 8 6
2 1 5


Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>  
```
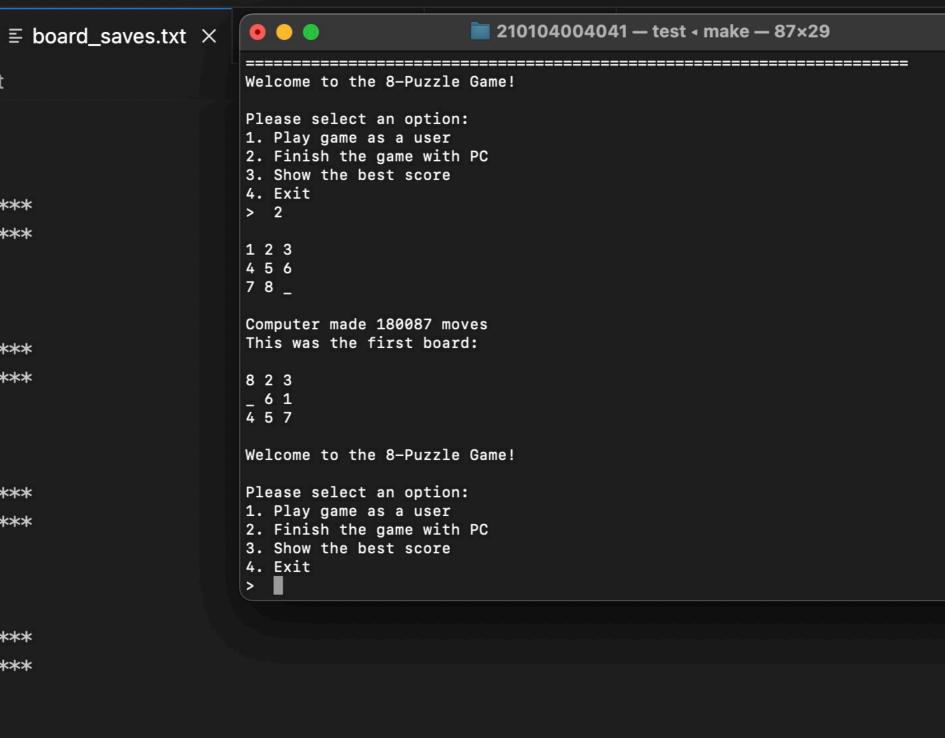
Ekran Resmi

```
rd *, char *, int *)
```

```
tle
ecursion
siyon açıp kapanırsa staack temiz kalır
oard *brdp,char *previous_move,int *movecount){
NULL));

p);

brdp))

t(brdp);

r(brdp,previous_move);
t)++;
works\n");
rint(brdp);
sh(brdp,previous_move,movecount);
```

```
ard *brdp,char *repeat){⋯
```

```
2. Finish the game with PC
3. Show the best score
4. Exit
>  2


1 2 3
4 5 6
7 8 _

Computer made 160424 moves
This was the first board:


_ 2 5
6 3 7
8 1 4


Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>  █
```

Ekran Resmi

```
ard *, char *, int *)
```

```
...moves possible

title

...ecursion

...siyon açıp kapanırsa staack temiz kalır
...board *brdp,char *previous_move,int *movecount){
...NULL));

...p);

...brdp))

...t(brdp);

...(brdp,previous_move);
...t)++;
...works\n");
...rint(brdp);
...h(brdp,previous_move,movecount);
```

```
ard *brdp,char *repeat){
```

Terminal — 210104004041 — test ‹ make — 80×24

```
2. Finish the game with PC
3. Show the best score
4. Exit
>  2


1 2 3
4 5 6
7 8 _

Computer made 358999 moves
This was the first board:

2 6 3
_ 7 1
8 5 4

Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>
```

Ekran Resmi

```
rd *, char *, int *)

s(){ …

  moves possible

tle

ecursion

siyon açıp kapanırsa staack temiz kalır
oard *brdp,char *previous_move,int *movecount){
ULL));

p);

brdp))

t(brdp);

(brdp,previous_move);
t)++;
works\n");
rint(brdp);
h(brdp,previous_move,movecount

oard *brdp,char *repeat){ …
```

Ekran Resmi

```
rd *, char *, int *)

s(){...

 moves possible


tle
ecursion
siyon açıp kapanırsa staack temiz kalır
oard *brdp,char *previous_move,int *movecount){
ULL));


p);
brdp))


t(brdp);


(brdp,previous_move);
t)++;
works\n");
int(brdp);
h(brdp,previous_move,movecount
```

```
            210104004041 — test ‹ make — 87×29

Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>  2


1 2 3
4 5 6
7 8 _

Computer made 654807 moves
This was the first board:

6 2 1
_ 5 8
7 4 3


Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>
```

```
ard *brdp,char *repeat){...
```

Ekran Resmi

board_saves.txt

```
900412   1 3 5
900413   4 2 _
900414   7 8 6
900415   *********
900416   *********
900417   1 3 _
900418   4 2 5
900419   7 8 6
900420   *********
900421   *********
900422   1 _ 3
900423   4 2 5
900424   7 8 6
900425   *********
900426   *********
900427   1 2 3
900428   4 _ 5
900429   7 8 6
900430   *********
900431   *********
900432   1 2 3
900433   4 5 _
900434   7 8 6
900435   *********
900436   *********
900437   1 2 3
900438   4 5 6
900439   7 8 _
900440   *********
```

Terminal — 210104004041 — test ‹ make — 87×29

```
================================================================
Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>  2


1 2 3
4 5 6
7 8 _

Computer made 180087 moves
This was the first board:

8 2 3
_ 6 1
4 5 7


Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>
```

Editor tabs:

M makefile | **C** util.c ✕

C util.c > ⬡ computer_plays()

```c
285
286        //board_print(board_p);
287        char first_char='B';//nece
288        int move=0;
289
290
291        clock_t start_t,end_t;
292
293        start_t=clock();
294        auto_finish(board_p,&first
295        end_t=clock();
296
297        printf("gecen sure: %lf\n"
298
299
300
301        printf("Computer made %d moves\n",move);
302        printf("This was the first board:\n");
303        board_print(&initialboard);
304
305    }
306    //first find legal moves possible
307    //randomly do one
308    //if bittiyse printle
309    //if bitmediyse recursion
310    //yandan bir fonksiyon açıp kapanırsa staack temiz kalır
311    void auto_finish(board *brdp,char *previous_move,int *movecount){
312        //srand(time(NULL));
313
```

Terminal window — 210104004041 — test ‹ make — 80×24

```
3. Show the best score
4. Exit
>  2

1 2 3
4 5 6
7 8 _

gecen sure: 12.814390
Computer made 851982 moves
This was the first board:

3 8 4
5 1 7
_ 2 6

Welcome to the 8-Puzzle Game!

Please select an option:
1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit
>
```