void create();

```
Enter command or "command" for list of commands: create
array creation complete!
```

int size();

```
Enter command or "command" for list of commands: size
Array size is: 1000
Enter command or "command" for list of commands:
```

void display();

void app_begin(int in);

Enter	command	or "co	mmand"	for	list	of	commands:	app_be	gin	
Input Appbeg	integer gined!	: 69								
Enter	command	or "co	mmand"	for	list	of	commands:	display	у	
Your a	array in	a tabl	e:							
69	340	362	63	858	3	386	462	369	754	376
528	138	204	96	888	3 (601	552	272	949	722
593	133	744	325	395	5 1	176	574	349	531	512

void app_end(int end);

Enter command or "command" for list of commands: app_end

Input integer: 420

Appended!

Enter command or "command" for list of commands: display

Your array in a table:

945	491	104	419	527	904	72	788	491	731
328	724	253	599	458	482	483	639	704	660
321	342	339	422	636	929	48	214	523	55
752	686	703	840	694	153	397	588	135	466
962	741	989	233	158	248	260	895	884	296
417	420	97	820	183	671	891	257	524	366
468	420								

void del begin();

```
Enter command or "command" for list of commands: del_begin

Beginning deleted!

Enter command or "command" for list of commands: display

Your array in a table:

340 362 63 858 386 462 369 754 376 528
```

void del_end();

```
Enter command or "command" for list of commands: del_end

End deleted!

Enter command or "command" for list of commands: display

Your array in a table:

340 362 63 858 386 462 369 754 376 528
```

686	703	840	694	153	397	588	135	466	962	
741	989	233	158	248	260	895	884	296	417	
420	97	820	183	671	891	257	524	366	468	

void inv();

```
Enter command or "command" for list of commands: inv
Array reversed!
Enter command or "command" for list of commands: display
Your array in a table:
997
       996
               995
                      993
                             991
                                     990
                                            989
                                                   989
                                                           989
                                                                  988
               987
       987
                      987
                             986
                                     985
                                            983
                                                   981
                                                           977
                                                                  976
974
       971
                                                   962
                                                           961
                                                                  958
               971
                      970
                             970
                                     965
                                            963
```

int sum();

```
Enter command or "command" for list of commands: sum

Sum of elements in the array: 482172

Enter command or "command" for list of commands:
```

void sort();

	(//								
Enter	command	or	"command"	for	list of	commands:			
sort									
L	1	2	2	3	8	8	9	9	10
LØ	13	13	14	15	17	20	22	22	22
24	24	26	27	28	28	29	29	32	32
34	34	35	36	37	38	38	39	42	43
16	47	47	48	50	51	51	52	53	53
55	55	56	56	58	59	59	60	63	65
55	66	67	68	68	69	69	69	69	70
70	72	72	73	73	74	74	75	76	77
77	78	79	79	80	80	83	83	84	86
37	87	89	89	89	90	90	91	92	95
95	96	96	97	97	99	99	99	100	100

void odd_array();

Ente	er command	or "com	mand" for	· list o	f command	ds: odd_	array			
Odd	Numbers:									
1	1	3	9	9	13	13	15	17	27	
29	29	35	37	39	43	47	47	51	51	
53	53	55	55	59	59	63	65	65	67	
69	69	69	69	73	73	75	77	77	79	
79	83	83	87	87	89	89	89	91	95	
95	97	97	99	99	99	101	101	113	113	
123	125	127	133	133	133	135	135	135	141	
145	147	149	149	149	151	153	153	155	157	
159	159	159	161	163	167	171	173	173	175	
175	177	181	181	181	181	181	183	183	187	
191	191	193	195	195	197	207	207	211	213	
213	213	215	219	219	225	227	229	231	233	
233	239	239	239	239	239	241	243	243	243	
243	245	247	247	251	253	255	255	257	261	
267	271	273	281	283	283	285	287	289	291	
293	295	295	297	299	305	305	307	307	307	
309	309	311	317	319	319	321	325	325	327	
329	329	331	331	331	333	333	333	333	333	
335	337	339	341	343	343	347	347	347	347	
349	349	351	351	357	357	359	363	363	365	
367	367	369	369	371	371	371	373	375	375	
375	375	377	381	385	393	395	397	397	407	
407	407	409	411	411	411	413	413	415	415	
417	419	419	423	425	425	429	431	431	433	
433	437	437	437	439	447	449	461	469	469	
469	471	473	473	475	479	481	483	487	489	
491	491	491	491	493	493	493	495	497	497	
499	501	501	515	515	521	523	523	527	529	
529	529	531	531	533	535	537	539	545	547	
549	549	551	553	555	555	559	559	561	563	
563	563	565	567	567	569	571	573	579	583	

int find(int e);

```
Enter command or "command" for list of commands: find
Input integer: 21
21 is not in the array
Enter command or "command" for list of commands: find
Input integer: 100
100 is at index 108
Enter command or "command" for list of commands: _____
```

int find_but_better(int e);

```
Enter command or "command" for list of commands: find_but_better
Input integer: 23
23 is not in the array
Enter command or "command" for list of commands: find_but_better
Input integer: 997
997 is at index 999
Enter command or "command" for list of commands:
```

This function is faster than the previous one because it checks the midpoint of the sorted array, checks if the input is greater or less than the selected int at the middle index then finds the center of either side the input is in and repeats until the input is found.