



- Develop a program which edits the input image
 - Read 'lena.png' an image as a color image. Depending on the input of a user, your program should do the following operations
 - Negative transformation on the user input 'n'
 - Gamma transformation with the value of gamma as 2.5 on the user input 'g'
 - Histogram equalization on the user input 'h'
 - Reset the image on the user input 'r'



- Develop a program which edits the input image
 - Read 'colorful.jpg' an image as a color image.
 Depending on the input of a user, your program should do the following operations
 - Color slicing on the user input 's'
 - Hue value: 9<hue<23
 - Color conversion on the user input 'c'
 - Increase Hue value by 50
 - For hue values bigger than 129, subtract 129 instead
 - Reset the image on the user input 'r'



- Develop a program which edits the input image
 - Read 'balancing.jpg' an image as a color image.
 Depending on the input of a user, your program should do the following operations
 - Average filtering on the user input 'a'
 - Use "blur" function with mask size as 9X9
 - White balancing by using gray world assumption on the user input 'w'
 - Reset the image on the user input 'r'



- Your program should display three windows
 - 'lena', 'colorful', 'balancing'
 - Depending on the input of a user, contents in a window should be changed
 - For color conversion, use CV_BGR2HSV and CV_HSV2BGR
 - Use waitKey for user interaction
 - waitKey returns the code of the pressed key or -1 if no key was pressed before the specified time had elapsed.
 - ESC **→** 27



Dec	Hx Oct	Cha	r	Dec	Нх	Oct	Html	Chr	Dec	Нх	Oct	Html	Chr	Dec	Нх	Oct	Html Ch	nr
0	0 000	NUL	(null)					Space				 4 ;					`	*
1	1 001	SOH	(start of heading)				4#33;		65	41	101	A	A	97	61	141	a	a
2	2 002	STX	(start of text)	34	22	042	¢#3 4 ;	**	66	42	102	B	В	98	62	142	4#98;	b
3	3 003	ETX	(end of text)	35	23	043	4#35;	#	67	43	103	C	С				a#99;	С
4	4 004	EOT	(end of transmission)	36	24	044	\$	ş	68	44	104	D	D	100	64	144	d	d
5	5 005	ENQ	(enquiry)	37	25	045	%	*	69	45	105	E	\mathbf{E}	101	65	145	e	e
6	6 006	ACK	(acknowledge)	38	26	046	4#38;	6	70	46	106	F	F	102	66	146	f	f
7	7 007	BEL	(bell)	39	27	047	'	1	71	47	107	G	G	103	67	147	g	g
8	8 010	BS	(backspace)	40	28	050	((72	48	110	H	H	104	68	150	h	h
9	9 011	TAB	(horizontal tab)	41	29	051))	73	49	111	I	I	105	69	151	i	i
10	A 012	LF	(NL line feed, new line)	42	2A	052	*	#	74	4A	112	a#74;	J	106	6A	152	j	j
11	B 013	VT	(vertical tab)	43	2B	053	+	+	75	4B	113	K	K	107	6B	153	k	k
12	C 014	FF	(NP form feed, new page)	44	20	054	,	,	76	4C	114	L	L	108	6C	154	l	1
13	D 015	CR	(carriage return)	45	2D	055	&# 4 5;	- 1	77	4D	115	M	М	109	6D	155	m	m
14	E 016	s_0	(shift out)	46	2E	056	.		78	4E	116	N	N	110	6E	156	n	n
15	F 017	SI	(shift in)	47	2F	057	6#47;	/	79	4F	117	O	0	111	6F	157	o	0
16	10 020	DLE	(data link escape)	48	30	060	0	0	80	50	120	O;	P	112	70	160	p	p
17	11 021	DC1	(device control 1)	49	31	061	@#49;	1	81	51	121	Q	Q	113	71	161	q	q
18	12 022	DC2	(device control 2)	50	32	062	2	2	82	52	122	R	R	114	72	162	r	r
19	13 023	DC3	(device control 3)	51	33	063	3	3	83	53	123	S	S	115	73	163	s	s
20	14 024	DC4	(device control 4)	52	34	064	4	4	84	54	124	 4 ;	Т	116	74	164	t	t
21	15 025	NAK	(negative acknowledge)	53	35	065	5	5	85	55	125	U	U	117	75	165	u	u
22	16 026	SYN	(synchronous idle)	54	36	066	 4 ;	6	86	56	126	V	٧	118	76	166	v	v
23	17 027	ETB	(end of trans. block)	55	37	067	7	7	87	57	127	W	W	119	77	167	w	w
24	18 030	CAN	(cancel)	56	38	070	8	8	88	58	130	X	Х	120	78	170	x	x
25	19 031	EM	(end of medium)	57	39	071	9	9	89	59	131	Y	Y	121	79	171	y	Y
26	1A 032	SUB	(substitute)	58	ЗА	072	:	:	90	5A	132	Z	Z	122	7A	172	z	Z
27	1B 033	ESC	(escape)	59	ЗВ	073	;	;	91	5B	133	[[123	7B	173	{	{
28	1C 034	FS	(file separator)	60	3С	074	4#60;	<	92	5C	134	\	A.	124	7C	174		1
29	1D 035	GS	(group separator)				a#61;					a#93;]	125	7D	175	}	}
30	1E 036	RS	(record separator)	62	ЗE	076	a#62;	>	94	5E	136	a#94;	٨	126	7E	176	~	~
	1F 037		(unit separator)	63	3 F	077	a#63;	2	95	5F	137	a#95;						
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Source: www.LookupTables.com