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Type 0 - Player	
IF SCREEN = 25	Title screen
IF F = 99	If it's time to show the instructions...
LET F 0	...reset indicator so that instructions are
COLOUR 68	only displayed when they are needed.
LET LINE 4	
LET COLUMN 18	
MESSAGE 8	
LET LINE 5	
LET COLUMN 18	
MESSAGE 9	
LET LINE 6	
LET COLUMN 18	
MESSAGE 10	
LET LINE 7	
LET COLUMN 18	
MESSAGE 11	
LET LINE 8	
LET COLUMN 14	
MESSAGE 12	
COLOUR 250	
LET LINE 11	
LET COLUMN 16	
MESSAGE 18	
LET LINE 12	
LET COLUMN 17	
MESSAGE 19	
LET LINE 16	
LET COLUMN 1	
COLOUR 7	
MESSAGE 13	
LET LINE 17	
LET COLUMN 1	
MESSAGE 14	
LET LINE 18	
LET COLUMN 1	
MESSAGE 15	
LET LINE 19	
LET COLUMN 1	
MESSAGE 16	
LET LINE 20	
LET COLUMN 1	
MESSAGE 17	
ENDIF	
IF KEY 4	If fire key pressed, start the game...
LET SCREEN 0	
LET X 160	
LET Y R	
SUBTRACT 32 TO Y	
LET J 13	
LET F 0	
RESTART	
EXIT	
ENDIF	
ENDIF	

IF J = 0	If game state is "play game"
IF SCREEN = 25	Title screen
ADD 1 TO P	P is a "stage" counter; Different things happen
IF P = 30	at different stages
LET J 254	Take off rocket number 1
ENDIF	
IF P = 31	
LET E 10	Set rocket to number 2
LET J 251	Land rocket number 2
ENDIF	
IF P = 61	
LET J 254	Take off rocket number 2
ENDIF	
IF P = 62	
LET E 13	Set rocket to number 3
LET J 251	Land rocket number 3
ENDIF	
IF P = 92	
LET J 254	Take off rocket number 3
ENDIF	
IF P = 93	
LET E 16	Set rocket to number 4
LET J 251	Land rocket number 4
ENDIF	
IF P = 123	
LET J 254	Take off rocket number 4
ENDIF	
IF P = 124	
LET E 19	Set rocket to number 5
LET J 251	Land rocket number 5
ENDIF	
IF P = 154	
LET J 254	Take off rocket number 5
ENDIF	
IF P = 155	
LET E 7	Set rocket to number 1
LET J 251	Land rocket number 1
ENDIF	
IF P = 185	
LET P 0	Repeat take off/land cycle
ENDIF	
EXIT	
ELSE	If not on title screen:
IF I = 1	If ready to spawn enemy sprite
IF C <= 11	If there are sprites available
LET F Q	store rate of enemy appearance
IF F > 7	If F > 7, find the modulo
DIVIDE F BY 7	
MULTIPLY F BY 7	
LET OPT Q	
SUBTRACT F TO OPT	
LET F OPT	
ENDIF	
IF F = 1	
SPAWN 1 2	1=Meteor; 2=blank sprite
ENDIF	

IF F = 2	
SPAWN 2 2	2=Bubble; 2=blank sprite
ENDIF	
IF F = 3	
SPAWN 3 2	3=Octagon; 2=blank sprite
ENDIF	
IF F > 3	
IF F <= 6	
SPAWN 4 2	4=Spinning balls, UFO and Alien; 2=blank sprite
ENDIF	
ENDIF	
IF F = 7	
SPAWN 5 2	5=Happy/Evil face; 2=blank sprite
ENDIF	
ENDIF	
LET I 0	
ENDIF	
IF B = 6	If all of the fuel has been collected
IF COLLISION 8	and Bob is in collision with a rocket part
LET FRAME 0	reset sprite frame
LET IMAGE 2	change sprite image to blank sprite
LET J 254	change game state for rocket take-off
EXIT	
ENDIF	
ENDIF	
IF KEY 0	
LET IMAGE 1	Bob facing right
IF CANGORIGHT	
SPRITERIGHT	
IF CANGORIGHT	
SPRITERIGHT	
ENDIF	
ENDIF	
ENDIF	
IF KEY 1	
LET IMAGE 0	Bob facing left
IF CANGOLEFT	
SPRITELEFT	
IF CANGOLEFT	
SPRITELEFT	
ENDIF	
ENDIF	
ENDIF	
IF KEY 3	
IF CANGOUP	
SPRITEUP	
IF CANGOUP	
SPRITEUP	
ENDIF	
ENDIF	
ELSE	
IF CANGODOWN	Automatically "fall" if not moving up
SPRITEDOWN	
IF CANGODOWN	
SPRITEDOWN	
ENDIF	

ENDIF	
ENDIF	
IF KEY 4	Fire the laser
IF L <= 1	If the fire key isn't already being pressed
ADD 1 TO L	allow one laser fire per key press
ADD 4 TO X	position the laser
LASER IMAGE	fire the laser
SUBTRACT 4 TO X	reposition
BEEP 10	
ENDIF	
ELSE	
LET L 0	Reset key press indicator
ENDIF	
SPRITEINK 6	Yellow
IF A = 0	
ANIMATE	
ENDIF	
ENDIF	
ENDIF	
IF J > 100	
IF J <= 200	
IF IMAGE = 20	
IF A = 0	
ANIMATE	
ENDIF	
IF FRAME = 5	
LET FRAME 0	
LET IMAGE 2	
ENDIF	
ENDIF	
IF J = 150	
LET X 160	
LET Y R	
SUBTRACT 32 TO Y	
LET FRAME 0	
LET IMAGE 0	
LET J 0	
LET O 0	
EXIT	
ENDIF	
IF J = 200	
LET FRAME 0	
LET IMAGE 20	
ENDIF	
SUBTRACT 1 TO J	
ELSE	
IF J = 250	
LET J 13	
EXIT	
ENDIF	
IF J = 251	Land the current rocket
IF SCREEN = 0	On these screens (0,5,10,15,20) the rocket needs
LET J 0	to be put back together, therefore don't show
ENDIF	it ready built by setting J to 0.
IF SCREEN = 5	
LET J 0	

ENDIF	
IF SCREEN = 10	
LET J 0	
ENDIF	
IF SCREEN = 15	
LET J 0	
ENDIF	
IF SCREEN = 20	
LET J 0	
ENDIF	
IF J = 0	
LET M X	
LET N Y	
LET Y R	
LET X 144	
PUT 0	
SUBTRACT 16 TO X	
PUT 1	
LET J 0	
LET X M	
LET Y N	
ENDIF	
IF J = 251	Draw the rocket on screen using the correct
IF E = 7	sprites. Start with the bottom sprite and
SPAWN 8 7	work upwards towards the top. This is to ensure
ENDIF	that each rocket part above "covers" the one
IF E = 10	below for when fuel is added and the colour of
SPAWN 8 10	each part changes (the colour of the top parts
ENDIF	are not overwritten by changing any below).
IF E = 13	
SPAWN 8 13	
ENDIF	
IF E = 16	
SPAWN 8 16	
ENDIF	
IF E = 19	
SPAWN 8 19	
ENDIF	
SPAWNED	
LET X 48	
LET Y R	
ORIGINAL	
IF E = 7	
SPAWN 8 6	
ENDIF	
IF E = 10	
SPAWN 8 9	
ENDIF	
IF E = 13	
SPAWN 8 12	
ENDIF	
IF E = 16	
SPAWN 8 15	
ENDIF	
IF E = 19	
SPAWN 8 18	

ENDIF	
SPAWNED	
LET X 32	
LET Y R	
ORIGINAL	
IF E = 7	
SPAWN 8 5	
ENDIF	
IF E = 10	
SPAWN 8 8	
ENDIF	
IF E = 13	
SPAWN 8 11	
ENDIF	
IF E = 16	
SPAWN 8 14	
ENDIF	
IF E = 19	
SPAWN 8 17	
ENDIF	
SPAWNED	
LET X 16	
LET Y R	
ORIGINAL	
SPAWN 8 4	
SPAWNED	
LET X 70	
LET Y R	
ORIGINAL	
ENDIF	
LET X 160	
LET Y R	
SUBTRACT 32 TO Y	
LET J 252	
EXIT	
ENDIF	
IF J = 253	Time to set up a few other things...
LET IMAGE 0	Set player image to left Bob
LET D 21	Shields at max strength
LET H 99	
LET J 0	On these screens (0,5,10,15,20), the rocket is
IF SCREEN = 0	not complete so do not spawn the fuel sprite.
LET J 1	
ENDIF	
IF SCREEN = 5	
LET J 1	
ENDIF	
IF SCREEN = 10	
LET J 1	
ENDIF	
IF SCREEN = 15	
LET J 1	
ENDIF	
IF SCREEN = 20	
LET J 1	
ENDIF	

IF SCREEN = 25	
LET J 1	
ENDIF	
IF J = 0	
SPAWN 7 2	Fuel sprite
ENDIF	
LET J 0	
EXIT	
ENDIF	
ENDIF	
ENDIF	
LET M X	
LET N Y	

<b>Type 1 - Meteor</b>	
IF J = 0	
IF DIRECTION = 0	
LET DIRECTION PARAMA	
IF CANGODOWN	
ADD 1 TO X	
ELSE	
LET TYPE 6	Explode
EXIT	
ENDIF	
ELSE	
SUBTRACT 1 TO DIRECTION	
ENDIF	
IF IMAGE = 22	
IF Y <= 10	Off screen left
LET FRAME 0	
LET IMAGE 2	
SUBTRACT 1 TO C	
REMOVE	
EXIT	
ENDIF	
IF FRAME = 7	
IF CANGOLEFT	
SPRITELEFT	
ELSE	
LET TYPE 6	Explode
EXIT	
ENDIF	
ELSE	
ANIMATE	
ENDIF	
ELSE	
IF Y > 228	Off screen right
LET FRAME 0	
LET IMAGE 2	
SUBTRACT 1 TO C	
REMOVE	
EXIT	
ENDIF	
IF FRAME = 7	
IF CANGORIGHT	



SPRITERIGHT	
ELSE	
LET TYPE 6	Explode
EXIT	
ENDIF	
ELSE	
ANIMATE	
ENDIF	
ENDIF	
IF COLLISION 10	Laser
SCORE 1	
LET TYPE 6	Explode
EXIT	
ENDIF	
IF COLLISION 0	Player
OTHER	
LET OPT IMAGE	
ORIGINAL	
IF OPT <> 2	If not transparent player sprite
ADD Q TO 0	Increment hit points
LET TYPE 6	Explode
EXIT	
ENDIF	
ENDIF	
SPRITEINK PARAMB	
ELSE	
SUBTRACT 1 TO C	
REMOVE	
ENDIF	

### Type 2 - Bubble

IF J = 0	
IF PARAMA = 0	
IF CANGOLEFT	
SPRITELEFT	
ELSE	
LET PARAMA 1	Bounce off barrier
LET FRAME 0	Start "wobble animation"
ENDIF	
ELSE	
IF CANGORIGHT	
SPRITERIGHT	
ELSE	
LET PARAMA 0	Bounce off barrier
LET FRAME 0	Start "wobble animation"
ENDIF	
ENDIF	
IF DIRECTION = 0	
IF CANGOUP	
SPRITEUP	
ELSE	
LET DIRECTION 1	Bounce off barrier
LET FRAME 0	Start "wobble animation"
ENDIF	
ELSE	

IF CANGODOWN	
SPRITEDOWN	
ELSE	
LET DIRECTION 0	Bounce off barrier
LET FRAME 0	Start "wobble animation"
ENDIF	
ENDIF	
IF A = 0	
IF FRAME <= 7	If playing "wobble" animation
IF A = 0	
ANIMATE	
EBDIF	
ENDIF	
ENDIF	
IF COLLISION 10	Laser
SCORE 5	
LET TYPE 6	Explode
EXIT	
ENDIF	
IF COLLISION 0	Player
OTHER	
LET OPT IMAGE	
ORIGINAL	
IF OPT <> 2	If not transparent player sprite
ADD Q TO 0	Increment hit points
LET TYPE 6	Explode
EXIT	
ENDIF	
ENDIF	
SPRITEINK PARAMB	
ELSE	
SUBTRACT 1 TO C	
REMOVE	
ENDIF	

### Type 3 - Hunter #1 (Octagon)

IF J = 0	
IF DIRECTION = 0	
IF CANGOUP	
SPRITEUP	
ELSE	
IF N <= Y	Change hunter direction depending on where the player sprite is in relation to this sprite.
LET DIRECTION 2	
ELSE	
LET DIRECTION 3	
ENDIF	
ENDIF	
ENDIF	
IF DIRECTION = 1	
IF CANGODOWN	
SPRITEDOWN	
ELSE	
IF N <= Y	Change hunter direction depending on where the player sprite is in relation to this sprite.
LET DIRECTION 2	
ELSE	

LET DIRECTION 3	
ENDIF	
ENDIF	
ENDIF	
IF DIRECTION = 2	
IF CANGOLEFT	
SPRITELEFT	
ELSE	
LET DIRECTION 3	
ENDIF	
GETRANDOM 4	
IF RND = 0	
IF M <= X	Change hunter direction depending on where the player sprite is in relation to this sprite.
LET DIRECTION 0	
ELSE	
IF CANGODOWN	
LET DIRECTION 1	
ENDIF	
ENDIF	
ENDIF	
ENDIF	
IF DIRECTION = 3	
IF CANGORIGHT	
SPRITERIGHT	
ELSE	
LET DIRECTION 2	
ENDIF	
GETRANDOM 4	
IF RND = 0	
IF M <= X	Change hunter direction depending on where the player sprite is in relation to this sprite.
LET DIRECTION 0	
ELSE	
IF CANGODOWN	
LET DIRECTION 1	
ENDIF	
ENDIF	
ENDIF	
IF COLLISION 10	Laser
SCORE 7	
LET TYPE 6	Explode
EXIT	
ENDIF	
IF COLLISION 0	Player
ADD Q TO 0	Increment hit points
LET TYPE 6	Explode
EXIT	
ENDIF	
SPRITEINK PARAMAB	
ELSE	
SUBTRACT 1 TO C	
REMOVE	
ENDIF	

## Type 4 - Hunter #2 (Spinning balls and others tracking sprites)

IF J = 0

---

SPRITEINK K	
IF IMAGE > 25	
ADD 16 TO X	
SPRITEINK K	
ADD 16 TO Y	
SPRITEINK K	
SUBTRACT 16 TO X	
SUBTRACT 16 TO Y	
ENDIF	
IF M <= X	Change hunter direction depending on where the
IF CANGOUP	player sprite is in relation to this sprite.
SUBTRACT 1 TO X	
ENDIF	
ELSE	
IF CANGODOWN	
ADD 1 TO X	
ENDIF	
ENDIF	
IF N <= Y	Change hunter direction depending on where the
IF CANGOLEFT	player sprite is in relation to this sprite.
SUBTRACT 1 TO Y	
ENDIF	
ELSE	
IF CANGORIGHT	
ADD 1 TO Y	
ENDIF	
ENDIF	
IF COLLISION 10	Laser
SCORE 6	
LET TYPE 6	Explode
EXIT	
ENDIF	
IF COLLISION 0	Player
ADD Q TO 0	Increment hit points
LET TYPE 6	Explode
EXIT	
ENDIF	
IF IMAGE = 25	
SPRITEINK PARAMAB	
ENDIF	
IF IMAGE = 26	
SPRITEINK 66	
ADD 8 TO X	
SPRITEINK 71	
ADD 8 TO Y	
SPRITEINK 71	
SUBTRACT 8 TO Y	
SUBTRACT 8 TO X	
ENDIF	
IF IMAGE = 27	
SPRITEINK 68	
ADD 8 TO X	
SPRITEINK 69	
ADD 8 TO Y	
SPRITEINK 69	
SUBTRACT 8 TO Y	

SUBTRACT 8 TO X	
ENDIF	
IF A = 0	
ANIMATE	
ENDIF	
ELSE	
SUBTRACT 1 TO C	
REMOVE	
ENDIF	

<b>Type 5 - Happy / Evil Ball</b>	
IF J = 0	
SPRITEINK K	
LET PARAMA 0	
LET OPT 0	
IF X > M	Change hunter direction depending on where the player sprite is in relation to this sprite.
IF CANGOUP	
SUBTRACT 1 TO X	
ENDIF	
LET OPT X	
SUBTRACT M TO OPT	
ELSE	
IF CANGODOWN	
ADD 1 TO X	
ENDIF	
LET OPT M	
SUBTRACT X TO OPT	
ENDIF	
IF OPT <= 64	Is there 64 or less pixels between this sprite and the player?
LET PARAMA 1	
ENDIF	
LET PARAMB 0	
LET OPT 0	
IF Y > N	Change hunter direction depending on where the player sprite is in relation to this sprite.
IF CANGOLEFT	
SUBTRACT 1 TO Y	
ENDIF	
LET OPT Y	
SUBTRACT N TO OPT	
ELSE	
IF CANGORIGHT	
ADD 1 TO Y	
ENDIF	
LET OPT N	
SUBTRACT Y TO OPT	
ENDIF	
IF OPT <= 64	Is there 64 or less pixels between this sprite and the player?
LET PARAMB 1	
ENDIF	
LET FRAME 0	
IF PARAMA = 1	If this sprite is close to the player, change its image to be more sinister!
IF PARAMB = 1	
LET FRAME 1	
ENDIF	
ENDIF	

IF COLLISION 10	Laser
SCORE 10	
LET TYPE 6	Explode
EXIT	
ENDIF	
IF COLLISION 0	
ADD Q TO 0	Increment hit points
LET TYPE 6	Explode
EXIT	
ENDIF	
IF FRAME = 0	
SPRITEINK 71	
ELSE	
GETRANDOM 2	
IF RND = 0	
SPRITEINK 66	
ELSE	
SPRITEINK 70	
ENDIF	
ENDIF	
ELSE	
SUBTRACT 1 TO C	
REMOVE	
ENDIF	

### Type 6 - Explosion

IF IMAGE <> 20	
LET FRAME 0	
LET IMAGE 20	
GETRANDOM 5	
ADD 2 TO RND	
LET PARAMA RND	
LET LINE 1	
LET COLUMN 24	
COLOUR 79	
SHOWSCORE	
EXIT	
ELSE	
SPRITEINK PARAMA	
IF FRAME = 1	
BEEP 20	
ENDIF	
IF FRAME = 5	
LET FRAME 0	
LET IMAGE 2	
SPRITEINK K	
SUBTRACT 1 TO C	
REMOVE	
EXIT	
ENDIF	
IF A = 0	
ANIMATE	
ENDIF	
ENDIF	

Type 7 - Fuel and Rocket Parts	
IF PARAMB > 253	
LET G 0	
LET DIRECTION 0	
IF PARAMB = 255	
GETRANDOM 28	
ADD 1 TO RND	
MULTIPLY RND BY 8	
LET DIRECTION 1	
LET Y RND	
LET X 16	
LET IMAGE 3	
ENDIF	
LET PARAMB 0	
ENDIF	
IF IMAGE = 5	
IF GOT 0	
ELSE	
SPRITEINK 7	
EXIT	
ENDIF	
ENDIF	
IF IMAGE = 8	
IF GOT 0	
ELSE	
SPRITEINK 7	
EXIT	
ENDIF	
ENDIF	
IF IMAGE = 11	
IF GOT 0	
ELSE	
SPRITEINK 7	
EXIT	
ENDIF	
ENDIF	
IF IMAGE = 14	
IF GOT 0	
ELSE	
SPRITEINK 7	
EXIT	
ENDIF	
ENDIF	
IF IMAGE = 17	
IF GOT 0	
ELSE	
SPRITEINK 7	
EXIT	
ENDIF	
ENDIF	
IF G = PARAMA	Is this sprite in collision with player?
IF M <= X	Drop the fuel/rocket if too far away from player
LET RND X	
SUBTRACT M TO RND	



IF RND > 30	
LET G 0	
BEEP 8	
EXIT	
ENDIF	
ENDIF	
LET RND 0	
IF Y > N	Drop the fuel/rocket if too far away from player
LET RND Y	
SUBTRACT N TO RND	
ELSE	
IF N > Y	
LET RND N	
SUBTRACT Y TO RND	
ENDIF	
ENDIF	
IF RND > 30	
LET G 0	
BEEP 8	
EXIT	
ENDIF	
IF Y > N	Move sprite with player
IF CANGOLEFT	
SPRITELEFT	
IF CANGOLEFT	
SPRITELEFT	
ENDIF	
ENDIF	
ELSE	
IF Y <= N	
IF Y = N	
ELSE	
IF CANGORIGHT	
SPRITERIGHT	
IF CANGORIGHT	
SPRITERIGHT	
ENDIF	
ENDIF	
ENDIF	
ENDIF	
ADD 20 TO M	
IF X > M	Move sprite with player
IF CANGOUP	
SPRITEUP	
IF CANGOUP	
SPRITEUP	
ENDIF	
ENDIF	
ELSE	
IF X <= M	
IF X = M	
ELSE	
IF CANGODOWN	
SPRITEDOWN	
IF CANGODOWN	

SPRITEDOWN	
ENDIF	
ENDIF	
ENDIF	
ENDIF	
SUBTRACT 20 TO M	
SUBTRACT 4 TO R	
IF Y > R	Is fuel/rocket over rocket base?
ADD 4 TO R	
IF Y <= R	
LET G 99	If so, drop it
BEEP 8	
ENDIF	
SUBTRACT 4 TO R	
ENDIF	
ADD 4 TO R	
ELSE	
IF COLLISION 0	
IF G <> 99	If fuel/rocket not over base
LET G PARAMA	Grab it
LET RND X	
DIVIDE RND BY 2	
MULTIPLY RND BY 2	
LET X RND	
BEEP 8	
ELSE	
IF CANGODOWN	If not being held, fall
ADD 1 TO X	
ENDIF	
ENDIF	
ELSE	
IF IMAGE > 4	This section controls rocket placement when
IF IMAGE <= 19	building the rocket
DETECT OBJ	
IF IMAGE = 6	
IF OBJ = 0	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 5	
IF OBJ = 1	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 9	
IF OBJ = 0	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 8	
IF OBJ = 1	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 12	

IF OBJ = 0	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 11	
IF OBJ = 1	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 15	
IF OBJ = 0	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 14	
IF OBJ = 1	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 18	
IF OBJ = 0	
GET OBJ	
ENDIF	
ENDIF	
IF IMAGE = 17	
IF OBJ = 1	
GET OBJ	
ENDIF	
ENDIF	
ADD 1 TO X	
IF COLLISION 8	
LET G 1	
IF IMAGE = 5	
LET G 0	
ENDIF	
IF IMAGE = 8	
LET G 0	
ENDIF	
IF IMAGE = 11	
LET G 0	
ENDIF	
IF IMAGE = 14	
LET G 0	
ENDIF	
IF IMAGE = 17	
LET G 0	
ENDIF	
IF G = 0	
GET 1	
LET X 128	
SPAWN 7 2	
SCORE 50	Add 500 to score
ADD 1 TO LIVES	
COLOUR 79	
LET LINE 1	
LET COLUMN 3	

DISPLAY LIVES	
BEEP 10	
ELSE	
GET 0	
LET X 144	
SCORE 25	Add 250 to score
BEEP 10	
ENDIF	
COLOUR 79	
LET LINE 1	
LET COLUMN 24	
SHOWSCORE	
IF SCREEN = 10	
SUBTRACT 8 TO X	
ENDIF	
LET G 0	
LET TYPE 8	Change to "rocket" type
EXIT	
ENDIF	
SUBTRACT 1 TO X	
ENDIF	
ENDIF	
IF COLLISION 8	If touching the rocket
IF CANGODOWN	
ADD 1 TO X	
ELSE	
ADD 1 TO B	
SCORE 15	Add 150 to score
COLOUR 79	
LET LINE 1	
LET COLUMN 24	
SHOWSCORE	
BEEP 8	
LET PARANB 255	
IF B = 6	
BEEP 30	
SUBTRACT 1 TO C	
REMOVE	
EXIT	
ENDIF	
ENDIF	
ELSE	
IF CANGODOWN	
ADD 1 TO X	
ENDIF	
ENDIF	
ENDIF	
IF IMAGE = 3	
SPRITEINK 3	
ENDIF	
IF IMAGE > 4	
IF IMAGE <= 19	
SPRITEINK 7	
ENDIF	
ENDIF	

## Type 8 - Rocket and Flames

```
IF J = 250
  SUBTRACT 1 TO C
  REMOVE
  EXIT
ENDIF
IF IMAGE = 4
  SPRITEINK K
ELSE
  IF B = 6
    ADD 1 TO PARAMA
    IF PARAMA = 5
      LET PARAMA 0
      IF PARAMB = 1
        LET PARAMB 0
      ELSE
        LET PARAMB 1
      ENDIF
    ENDIF
  ELSE
    LET PARAMA 0
    LET PARAMB 0
  ENDIF
  IF PARAMB = 0
    LET RND 7
    LET OPT 3
  ELSE
    LET RND 3
    LET OPT 7
  ENDIF
  IF IMAGE = E
    IF B > 1
      SPRITEINK OPT
    ELSE
      IF B > 0
        SPRITEINK OPT
        SUBTRACT 8 TO X
        SPRITEINK RND
        ADD 8 TO X
      ELSE
        SPRITEINK RND
      ENDIF
    ENDIF
  ENDIF
  SUBTRACT 1 TO E
  IF IMAGE = E
    IF B > 3
      SPRITEINK OPT
    ELSE
      IF B > 2
        SPRITEINK OPT
        SUBTRACT 8 TO X
        SPRITEINK RND
        ADD 8 TO X
      
```

ELSE	
SPRITEINK RND	
ENDIF	
ENDIF	
ENDIF	
SUBTRACT 1 TO E	
IF IMAGE = E	
IF B > 5	
SPRITEINK OPT	
ELSE	
IF B > 4	
SPRITEINK OPT	
SUBTRACT 8 TO X	
SPRITEINK RND	
ADD 8 TO X	
ELSE	
SPRITEINK RND	
ENDIF	
ENDIF	
ENDIF	
ADD 2 TO E	
ENDIF	
IF J = 252	
IF CANGODOWN	
ADD 1 TO X	
BEEP 5	
ELSE	
IF IMAGE = 4	
SUBTRACT 1 TO C	
REMOVE	
EXIT	
ELSE	
IF SCREEN = 25	
LET J 0	
ELSE	
LET J 253	
ENDIF	
ENDIF	
ENDIF	
ENDIF	
IF J = 254	Launch rocket
IF CANGOUP	
SUBTRACT 1 TO X	
BEEP 5	
ELSE	
IF SCREEN = 25	
LET J 0	
LET F 99	
RESTART	
ELSE	
IF SCREEN <= 23	
SCREENRIGHT	
ELSE	
LET SCREEN 0	
ENDIF	
ADD 1 TO Q	

LET J 250	
RESTART	
ENDIF	
EXIT	
ENDIF	
IF DIRECTION = 0	
IF IMAGE = E	
IF X <= 138	
LET DIRECTION 1	
SPAWN 8 4	
SPAWNED	
LET FRAME 0	
LET X 160	
LET Y R	
ORIGINAL	
ENDIF	
ENDIF	
ENDIF	
IF IMAGE = 4	
SPRITEINK 66	
IF A = 0	
ANIMATE	
ENDIF	
ENDIF	

<b>Initialise sprite</b>	
ADD 1 TO C	
IF TYPE = 0	
LET FRAME 0	
LET IMAGE 2	
ENDIF	
IF TYPE = 1	
GETRANDOM 4	
ADD 2 TO RND	
LET PARAMB RND	
GETRANDOM 2	
LET DIRECTION RND	
GETRANDOM 144	
ADD 16 TO RND	
LET X RND	
IF DIRECTION = 0	
LET IMAGE 22	
LET Y 232	
ELSE	
LET IMAGE 21	
LET Y 8	
ENDIF	
LET FRAME 0	
GETRANDOM 10	
LET PARAMA RND	
LET DIRECTION RND	
ENDIF	
IF TYPE > 1	
IF TYPE <= 5	

GETRANDOM 2	
IF RND = 0	
LET Y 8	
ELSE	
LET Y 232	
ENDIF	
GETRANDOM 2	
IF RND = 0	
LET X 16	
ELSE	
LET X 160	
ENDIF	
ENDIF	
ENDIF	
IF TYPE > 1	
IF TYPE <= 4	
GETRANDOM 6	
ADD 65 TO RND	
LET PARAMB RND	
ENDIF	
ENDIF	
IF TYPE = 2	
LET FRAME 0	
LET IMAGE 23	
LET FRAME 8	
ENDIF	
IF TYPE 3	
LET FRAME 0	
LET IMAGE 24	
ENDIF	
IF TYPE = 4	
LET FRAME 0	
IF F = 4	
LET IMAGE 25	
GETRANDOM 3	
LET FRAME RND	
ENDIF	
IF F = 5	
LET IMAGE 26	
ENDIF	
IF F = 6	
LET IMAGE 27	
ENDIF	
ENDIF	
IF TYPE = 5	
LET FRAME 0	
IF F = 5	
LET IMAGE 26	
ELSE	
LET IMAGE 28	
ENDIF	
ENDIF	
IF TYPE = 7	
LET PARAMA C	
LET PARAMB 255	
IF IMAGE > 4	



IF IMAGE <= 19	
LET PARAMB 254	
ENDIF	
ENDIF	
ENDIF	
IF TYPE = 8	
LET DIRECTION 0	
ENDIF	
<b>Main loop 1</b>	
IF SCREEN = 26	
ENDGAME	
ENDIF	
IF LIVES = 0	
LET SCREEN 26	
RESTART	
ENDIF	
IF SCREEN <= 24	
IF J = 0	
IF A = 0	Update shield status every other frame
IF D = 0	
SUBTRACT 1 TO LIVES	
COLOUR 79	
LET LINE 1	
LET COLUMN 3	
DISPLAY LIVES	
LET D 21	
LET H 99	
LET J 200	
EXIT	
ELSE	
IF O > 0	
IF O > D	
LET O D	
ENDIF	
SUBTRACT 1 TO D	
SUBTRACT 1 TO O	
ENDIF	
ENDIF	
ENDIF	
IF I = 0	
LET I 30	
IF Q <= 28	
SUBTRACT Q TO I	
ELSE	
LET I 2	
ENDIF	
GETRANDOM I	
LET I RND	
ELSE	
IF I > 1	
SUBTRACT 1 TO I	
ENDIF	
ENDIF	

IF A = 1	Update shield status every other frame
IF H > 0	
IF H = 99	
LET OPT 1	
REPEAT 21	
ADD 1 TO OPT	
IF OPT <= 12	
COLOUR 68	
ELSE	
COLOUR 66	
ENDIF	
LET LINE OPT	
LET COLUMN 0	
MESSAGE 6	
LET LINE OPT	
LET COLUMN 31	
MESSAGE 6	
ENDREPEAT	
LET H D	
ELSE	
IF H > D	
LET OPT 21	
SUBTRACT H TO OPT	
ADD 2 TO OPT	
COLOUR 0	
LET LINE OPT	
LET COLUMN 0	
MESSAGE 6	
LET LINE OPT	
LET COLUMN 31	
MESSAGE 6	
SUBTRACT 1 TO H	
ENDIF	
ENDIF	
ENDIF	
ENDIF	
IF A = 0	
ADD 1 TO A	
ELSE	
LET A 0	
ENDIF	

<b>Main loop 2</b>	
IF J > 0	
IF J <= 13	
IF SCREEN = 0	
LET R 19	
LET E 7	
LET K 4	
COLOUR 79	
LET LINE 1	
LET COLUMN 1	
MESSAGE 4	

LET LINE 1	
LET COLUMN 3	
DISPLAY LIVES	
LET LINE 1	
LET COLUMN 24	
SHOWSCORE	
LET LINE 1	
LET COLUMN 30	
MESSAGE 7	
LET LINE 23	
LET COLUMN 1	
COLOUR 0	
MESSAGE 3	
ENDIF	
IF SCREEN = 1	
LET R 11	Column to place rocket
ENDIF	
IF SCREEN = 2	
LET R 16	Column to place rocket
ENDIF	
IF SCREEN = 3	
LET R 26	Column to place rocket
ENDIF	
IF SCREEN = 4	
LET R 6	Column to place rocket
ENDIF	
IF SCREEN = 5	
LET R 15	Column to place rocket
LET E 10	Change rocket
LET K 5	Scenery colour
ENDIF	
IF SCREEN = 6	
LET R 11	Column to place rocket
ENDIF	
IF SCREEN = 7	
LET R 19	Column to place rocket
ENDIF	
IF SCREEN = 8	
LET R 6	Column to place rocket
ENDIF	
IF SCREEN = 9	
LET R 15	Column to place rocket
ENDIF	
IF SCREEN = 10	
LET R 6	Column to place rocket
LET E 13	Change rocket
LET K 2	Scenery colour
ENDIF	
IF SCREEN = 11	
GETRANDOM 3	
IF RND = 0	
LET R 6	Column to place rocket
ENDIF	
IF RND = 1	
LET R 15	Column to place rocket
ENDIF	

IF RND = 2	
LET R 24	Column to place rocket
ENDIF	
ENDIF	
IF SCREEN = 12	
LET R 27	Column to place rocket
ENDIF	
IF SCREEN = 13	
LET R 15	Column to place rocket
ENDIF	
IF SCREEN = 14	
LET R 15	Column to place rocket
ENDIF	
IF SCREEN = 15	
LET R 12	Column to place rocket
LET E 16	Change rocket
LET K 3	Scenery colour
ENDIF	
IF SCREEN = 16	
LET R 8	Column to place rocket
ENDIF	
IF SCREEN = 17	
LET R 19	Column to place rocket
ENDIF	
IF SCREEN = 18	
LET R 19	Column to place rocket
ENDIF	
IF SCREEN = 19	
LET R 12	Column to place rocket
ENDIF	
IF SCREEN = 20	
LET R 18	Column to place rocket
LET E 19	Change rocket
LET K 5	Scenery colour
ENDIF	
IF SCREEN = 21	
LET R 9	Column to place rocket
ENDIF	
IF SCREEN = 22	
LET R 16	Column to place rocket
ENDIF	
IF SCREEN = 23	
LET R 21	Column to place rocket
ENDIF	
IF SCREEN = 24	
LET R 6	Column to place rocket
ENDIF	
IF SCREEN = 25	Title screen
LET R 29	Column to place rocket
LET K 7	Scenery colour
ENDIF	
MULTIPLY R BY 8	
LET A 0	
LET J 251	Land current rocket
ENDIF	
ENDIF	

<b>Game Initialisation</b>	
LET LIVES 3	
COLOUR 6	
BORDER 0	
CLS	
LET B 0	Fuel collected counter
LET C 0	Sprite counter
LET D 24	Shield strength
LET E 7	Rocket number 1
LET F 99	
LET G 0	
LET I 0	
LET J 13	
LET K 0	
LET L 0	
LET O 0	
LET Q 1	
LET LINE 0	
LET COLUMN 0	
COLOUR 78	
MESSAGE 1	
LET LINE 1	
LET COLUMN 0	
COLOUR 77	
MESSAGE 3	
LET LINE 1	
LET COLUMN 9	
MESSAGE 2	
LET LINE 23	
LET COLUMN 5	
COLOUR 1	
MESSAGE 5	

<b>Restart screen</b>	
LET B 0	
LET C 1	
LET G 0	

<b>Variables</b>	
A	Animation flip-flop
B	Fuel collected counter
C	Sprite counter
D	Shield strength
E	Current rocket image (bottom sprite no.)
F	Sound count down
G	Fuel collection status - 0 = Not collected Sprite number = Being carried by Bob 99 = Falling to rocket
H	Draw shield strength bar when > 0
I	Enemy populate count down
J	Game state - 0 = Playing the game

	200 = Player dead, hide all sprites 199 - 100 = Wait for player to spawn 251 = Draw rocket on screen 250 = Remove rocket 252 = Rocket landing 254 = Rocket taking off
K	Scenery colour
L	Currently firing laser if > 0
M	Bob's X co-ordinate
N	Bob's Y co-ordinate
O	Enemy attack points
P	
Q	Rate of enemy appearance
R	Rocket x position (y co-ord)